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ABSTRACT

This volume, the second of two, presents and analyzes the information technology acquisition plans of the Federal Government by agency and component. A brief description covers the outlays planned for major information technology acquisitions of general purpose data processing and telecommunications systems, facilities, and related services for 6 years beginning in Fiscal Year 1984 for four major budget categories: national security and international affairs; economics and government; human resources, veterans, and labor (including education); and natural resources, energy, and science. For each of these categories, the planned acquisitions of individual agencies are listed by item with the funding allocation and a brief description. Exhibits summarize planned procurements by agencies, the distribution of planned expenditures by major budgetary category, and the relative proportion of 6-year outlays planned for information technology procurements for each agency. An agency index is included. (LMM)

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A Five-Year Plan for Meeting the Automatic Data Processing and Telecommunications Needs of the Federal Government

Volume 2: Major Information Technology Systems Acquisition Plans of Federal Executive Agencies, 1984-1989

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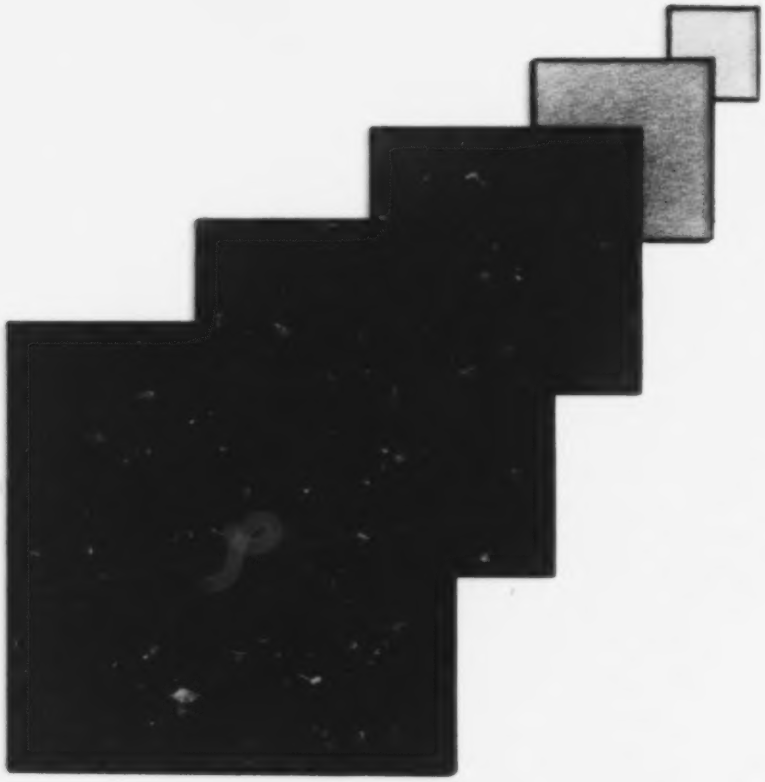

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of Commerce

April 1984

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A Five-Year Plan for Meeting the Automatic Data Processing and Telecommunications Needs of the Federal Government

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1. INTRODUCTION

Volume II, A Five-Year Plan for Meeting the Automatic Data Processing and Telecommunications Needs of the Federal Government: Major Information Technology Systems Acquisition Plans of Federal Executive Agencies, 1984-1989, is a compilation and analysis of Federal executive agency plans for major information technology acquisitions of general purpose data processing and telecommunications systems, facilities, and related services from FY 84 through FY 89. This document has been prepared to meet the requirements of the Paperwork Reduction Act (44 U.S.C. 3505(3)(E)).

These plans are being published in order to:

- Provide advanced planning information to assist the General Services Administration (GSA) in carrying out procurement oversight responsibilities.
- Provide advanced planning information to Congress.
- Facilitate competition by providing advanced planning information to industry.

Major acquisitions are defined as acquisitions which have a 5 year planned cost of more than one million dollars during FY 85 through FY 89 except for the Department of Defense where a threshold of six million dollars has been applied. The acquisition plans included in this document are for computer and telecommunications systems as defined in Section 43 of OMB Circular No. A-11.

Resources for expanded or new capacity included in the plans for FY 84 and FY 85 are included in the President's FY 85 Budget request submitted to Congress in January of 1984.

The publication of this compilation of agency acquisitions should not be interpreted as OMB's approval of resources beyond FY 85 nor should it be interpreted as the GSA's or OMB's approval of any specific acquisition or any specific method of procurement.

A. ORGANIZATION AND USE OF THIS MANUAL

This is the second volume of two volumes. The first volume, A Five-Year Plan for Meeting the Automatic Data Processing and Telecommunications Needs of the Federal Government: Planning Strategies, describes the planning process and examines the planning effort of several typical agencies. It also provides a survey of the current state of planning among the cabinet agencies and explores some of the issues involved in managing the evolution of the new technology. Volume II contains the information technology acquisition plans of the Federal Government, broken out by agency and component. Volume II is arranged into three major sections. Section I contains an analysis of major information technology acquisitions by Federal executive agencies.

Section II is the compilation of planned executive agency information technology procurements obtained from the 1985 Federal budget. Section III is an agency index.

B. Analysis of Information Technology Outlays

The analysis of outlays planned for major information technology acquisitions during fiscal years 1984 through 1989 by Federal executive agencies for general purpose data processing and telecommunications systems is broken into four major budget categories:

- National Security and International Affairs
- Economics and Government
- Human Resources, Veterans, and Labor
- Natural Resources, Energy, and Science

Within each of these categories, planned major information technology acquisitions have been compiled by agency. Exhibit 1 is a table which summarizes planned procurements by agency. Exhibit 1 represents the aggregation of 1,503 individual planned acquisitions subject to the dollar thresholds mentioned earlier.

Exhibit 2 is a stacked bar chart showing the distribution of planned expenditures by major budgetary category.

Exhibit 3 is a pie chart showing the relative proportion of 6 year planned outlays for information technology procurements that each agency represents.

OUTLAYS PLANNED FOR MAJOR INFORMATION TECHNOLOGY PROCUREMENTS (1984-1989)

($ in Millions)

	1984	1985	1986	1987	1988	1989	6 YEAR TOTAL
NATIONAL SECURITY AND INTERNATIONAL AFFAIRS							
AIR FORCE	268	533	442	399	420	497	2559
ARMY	574	646	705	666	635	635	3861
MARINE CORPS	35	47	50	40	14	39	225
NAVY	290	468	531	430	420	404	2543
OSD	103	158	110	101	93	100	665
USIA	12	4	4	4	3	3	30
AID	1	3	1	1	0	0	6
USTR	1	1	1	1	1	1	6
STATE	20	18	16	12	12	0	78
NS&IA SUBTOTAL	1304	1878	1860	1654	1598	1679	9973

	1984	1985	1986	1987	1988	1989	6 Year TOTAL
ECONOMICS AND GOVERNMENT							
COMMERCE	74	136	89	132	116	160	707
JUSTICE	241	232	239	214	200	210	1336
TREASURY	143	263	295	284	370	334	1689
TRANSPORTATION	55	55	71	49	53	46	329
GSA	1011	1083	1754	1240	1247	1295	7630
OPM	9	9	5	6	6	7	42
HUD	14	13	14	14	15	16	86
FEMA	12	45	56	66	58	53	290
SBA	1	1	5	1	1	1	10
FHLBB	1	1	1	1	1	1	6
SEC	0	3	2	2	1	1	9
FCC	1	2	2	3	0	0	8
FTC	1	1	1	1	1	1	6
EOP	1	3	3	3	0	0	10
ICC	0	0	0	0	0	0	0 *
E&C TOTAL	1564	1847	2537	2016	2069	2125	12158

EXHIBIT 1

OUTLAYS PLANNED FOR MAJOR INFORMATION TECHNOLOGY PROCUREMENTS (1984-1989)

($ in Millions)

	1984	1985	1986	1987	1988	1989	6 YEAR TOTAL
HUMAN RESOURCES, VETERANS AND LABOR							
HHS	174	189	152	130	110	91	846
EDUCATION	44	46	49	49	53	54	295
LABOR	17	16	22	19	15	15	104
VA	7	10	10	10	10	11	58
RRB	6	7	5	3	1	1	23
HRV&A SUBTOTAL	248	268	238	211	189	172	1326

	1984	1985	1986	1987	1988	1989	6 Year TOTAL
NATURAL RESOURCES, ENERGY AND SCIENCE							
AGRICULTURE	179	248	330	220	160	135	1272
INTERIOR	62	76	74	68	49	45	374
ENERGY	46	128	216	217	171	113	891
CORPS OF ENG	9	11	24	40	23	24	130
EPA	44	51	55	51	51	51	303
NASA	449	522	567	588	562	537	3225
TVA	27	29	28	35	36	33	188
NSF	3	9	11	12	2	3	40
NRE&S SUBTOTAL	819	1074	1305	1231	1054	941	6424
GRAND TOTALS	3934	5069	5941	5113	4910	4917	29884 **

EXHIBIT 1 (CONT'D)

* Entry is zero due to rounding.

** Summary level figures may not add exactly to detail figures due to rounding.

EXHIBIT 2

INFORMATION TECHNOLOGY ACQUISITIONS

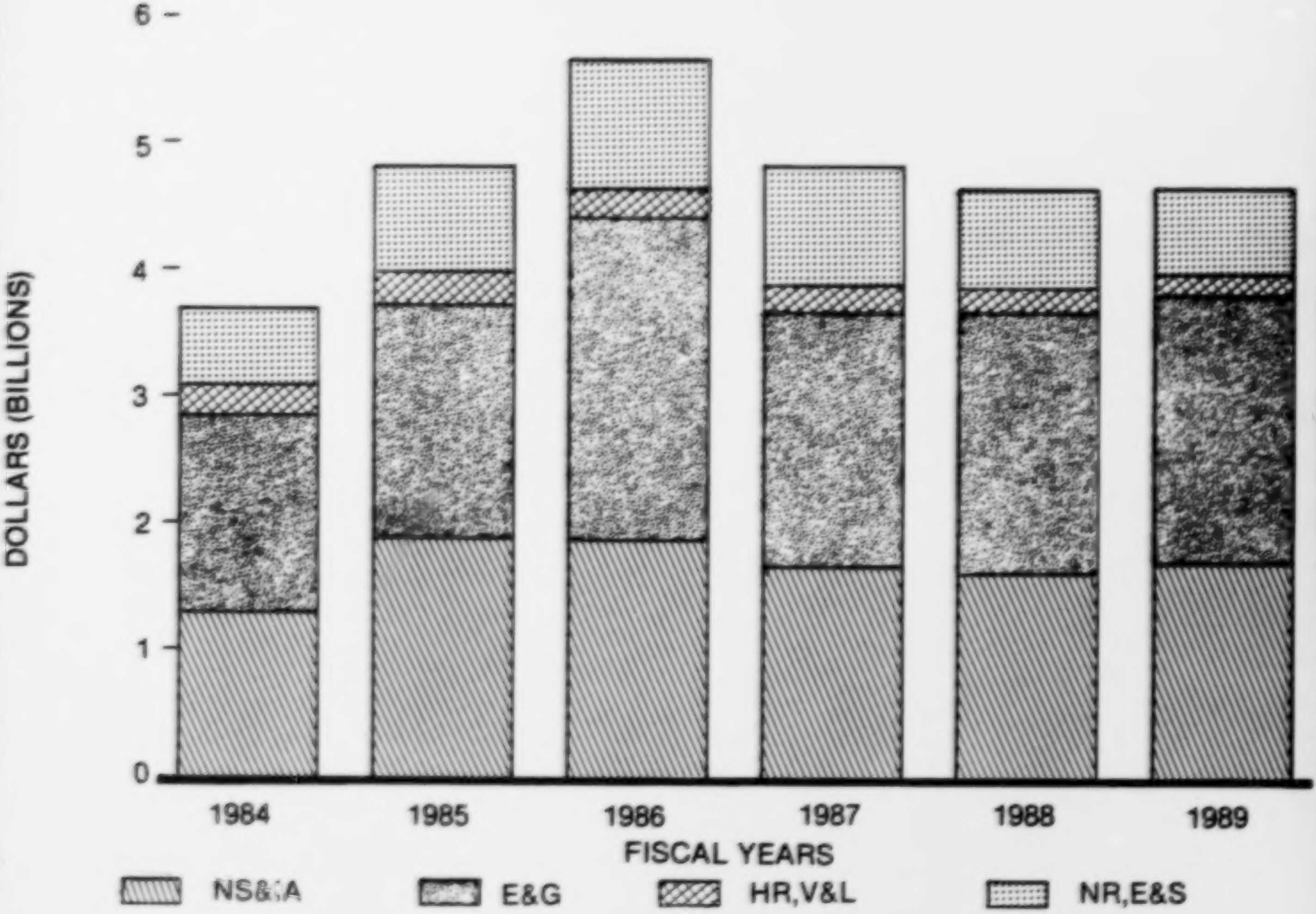
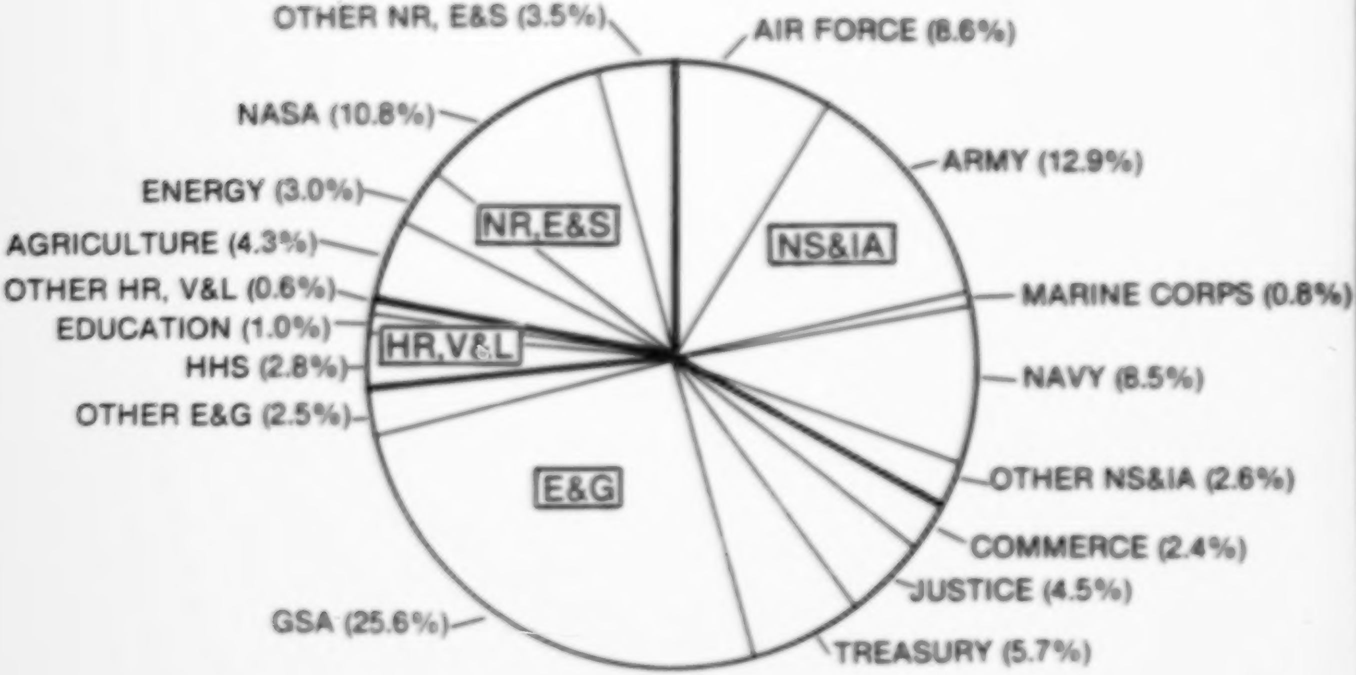


EXHIBIT 3

INFORMATION TECHNOLOGY ACQUISITIONS

RELATIVE DISTRIBUTION OF FEDERAL WIDE 6 YEAR PLANNED OUTLAYS



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DEPARTMENT OF THE AIR FORCE

Major Information Technology Acquisition Plans
1984 - 1989
(in thousands of dollars)

Item: Initial computer support for the Dental Data System (DDS).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1000	1000	1200	600	--	--

Description: Provides the hardware necessary to automate the data entry associated with dental workload collection and reporting. Automates a labor intensive requirement, returns manpower to patient care activities and provides improved management information. (ADPS-59/S2)

Item: Initial computer support for the Coronary Artery Risk Evaluation (CARE) program.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1229	1332	821	--	--	--

Description: Provides the hardware necessary to support the CARE program which is designed to identify those individuals having increased risk of cardiovascular disease and reduce that risk through intervention programs. Creates a central data base for trend analysis and research activities. (ADPS-59/S2)

Item: Decentralization of funding responsibility for the Tri-Service Medical Information Systems (TRIMIS) automated systems.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1964	2566	1424	--	--

Description: Provides the necessary support for the TRIMIS systems installed in our medical facilities. The TRIMIS systems are automated information systems which enable the the Medical Services to more effectively provide readiness support, improved patient to care and enhanced provider productivity. (ADPS 55. S2)

Item: Equipment maintenance support for the Comprehensive Occupational Health Program (COMP).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	1424	1627	1759

Description: Provides contract maintenance for hardware which supports COMP. COMP is designed to identify workplace, chemical, physical and biological risks likely to cause occupational illness or injury. It fulfills the requirements of the Occupational Safety and Health Act of 1970. (ADPS 55, S2)

Item: Operational support of the Uniform Chart of Accounts (UCA) Automated Source Data Collection (ASDC) System.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2064	3720	3170	3236	3307	3422

Description: Provides the hardware maintenance and software development for the ASDC systems being installed in 100 Air Force medical facilities worldwide. The ASDC system automates the DOD mandated medical cost/workload reporting system known as the Uniform Chart of Accounts. The related hardware is being procured as part of a central DOD buy. (ADPS-59/82)

Item: Equipment maintenance for the Medical Readiness Assemblage Materiel System (MEDRAMS).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	225	431	434	438	438	438

Description: Provides contract maintenance support for stand alone mini-computers in prepositioned medical assemblages in USAFE, PACAF and Southwest Asia to provide an automated inventory system for wartime contingency hospitals. (ADPS-59/82)

Items: Initial contractor data processing/office automation support to Air Force Operational Test and Evaluation Center detachments and test teams.

Obligation:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1145	1530	1110	742	--	--

Description: Contract services for data processing -- software design and development, and system engineering, installation, operations, training, and maintenance on-site -- at HQ AFOTEC detachments and test teams in direct support of the OT&E mission (TEC/ADPS 99).

Item: Air Force Human Resources Laboratory Support Computer.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	260	280	300	320	340	360

Description: Maintenance of the Sperry U1100/81 computer which support AFHRL as well as programs for numerous others (e.g., SAM, AMD, AFMPC, etc). (AFSC, ADPS 99)

Items: Initial Office Automation Support for Executives

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	53	106	2073	250	250	250

Description: Purchase of follow-on equipment for Office Automation support for administrative personnel scheduled to be installed during 3d Qtr FY 84. Will provide data processing, graphics, statistical trending, data query, data entry, executive support and portable terminal capability. Equipment will be installed and operated at the HQ Air Force Inspection and Safety Center, Norton AFB, CA (HQ AFISC/ADPS 68).

Items: Command Data Center Computer System Upgrade

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	838	262	121	49

Description: Upgrades the AFISC's CPU, Direct Access Storage Devices, Tape Units, Printers and Computer-Output Microform (COM) equipment. Equipment to be installed and operated at HQ AFISC, Norton AFB, CA (HQ AFISC/ADPS 68).

Item: Equipment rental and maintenance of word processing equipment for office information processing

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	610	898	898	898

Description: Provides word processing equipment to keep TAC consistant with future mission requirements. Due to a constant increase in cost, a reduction in the availability of personnel, and a more technical environment, the office of the future must be acquired whenever the currently installed manual and electric typewriters become unserviceable. (TAC/ADPS Z4/12896)

Item: Text Processing System for AFOSI

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	500	700	500	--	--

Description: Hardware and software for message handling and textual data processing capabilities. (AFOSI, ADPS 99).

Item: Computer Replacement of IBM Equipment at HQ AFCOMS Complex Offices

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,641	1,909	1,126	762	807	853

Description: Purchase and maintenance of computer hardware/software to replace obsolete IBM equipment currently employed by HQ AFCOMS Complex Offices, in support of the Automated Commissary Operations System (ACOS, ADPS RC)

Item: HQ AFOSI Support Computer

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	2100	800	--

Description: Replacement or major upgrade of HQ AFOSI computers in support of investigation and counterintelligence mission. Computer will be 8 years old by FY 1987. (AFOSI, ADPS 99)

Item: AFOSI Information Network System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1600	--	3500	2500	1500	800

Description: Hardware and software for the AFOSI worldwide information processing network. It includes additional data processing capability at all district headquarters. (AFOSI, ADPS 99).

Item: Advance Personnel Data System II (APDS-II)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1291	1491	2902	3461	3462	7353

Description: Augment current computer support (purchase of ADPE and maintenance). The equipment to be purchased will be installed primarily in Air Force Base Personnel Offices and ANG/AFRES activities worldwide. The objectives are to increase efficiency, improve production and reduce labor intensive efforts in personnel offices through the application of state-of-the-art ADPE, word processing and communication technologies (AFMPC/APDS-13).

Item: Distributed Data Processing System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	3318	1736	320	335	348

Description: Acquire system resources and associated peripheral equipment to develop a distributed processing system for major groups of Manapower and Personnel system users. This is achieved through upgrade of Remote Batch Terminal (RBT) capabilities. These upgrades involve the addition of memory, central processor, disk storage, input controllers and other ADPE necessary for each specific distributed processing mode (AFMPC/APDS-13).

Item: Optical Disk Storage

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	2734	61	64	67	69

Description: Acquire high-technology digital optical disk mass-storage system to replace a portion of the magnetic tape subsystem (AFMPC/APDS-13).

Item: Multi-Function Workstations

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	2262	153	191	232	276

Description: Purchase of 258 Multifunction workstations, maintenance, and the installation of a local area network (AFMPC/APDS-13).

Item: AFIT Professional Education Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2042	2412	2650	2697	2813	2771

Description: Provides for contract services, lease, maintenance and purchase of ADPE for the Air Force Institute of Technology (AFIT) professional educational support programs. (AUN/ADPS KB)

Item: CPU Upgrade at AFAFC DPI6200 (Purchase of hardware and Maintenance)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	6625	6209	406	406	406	406

Description: Two AMDAHL 58XX computers were purchased and installed at AFAFC in FY 84 (1 each 5860 and 5850 processor). These computers had a follow on upgrade which was provided for in the current contract. The upgrade is scheduled in FY 85 and includes installation of another AMDAHL 5870 CPU and upgrade of the 5850 currently installed to a 5860. Purchase of this hardware also includes maintenance. (AFAFC/ADPS 25)

Item: Equipment Rental, Purchase and Maintenance to support Retiree Annuitant Pay System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	65	690	58	62	67	74

Description: Lease of 42 CRTs, 2 Printers and 1 Controller in FY 84 and purchase of 141 data entry inquiry CRT Terminals, 18 Controller, 2 Line printers and 950 million bytes of DASD in FY 85. Hardware is to support the RAPS Upgrade - to expand data collection, recording and to merge labor intensive manual systems with automated systems into an effective integrated system. All hardware devices will be located in building 444, at the Air Force Accounting and Finance Center. (AFAFC/ADPS 25)

Item: Replacement of Direct Access Storage Devices (DASD)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	614	681	682	682	682	682

Description: Replacement of Direct Access Storage devices with 8 strings of High Density (IBM 3380 type or equivalent) devices with Cache Memory. System saturation and demand for advanced technology such as online query and updating by AFAFC's computer users dictate use of these devices. These high capacity devices are a must to maintain mission capability and to take advantage of CPU performance. (AFAFC/ADPS 25)

Item: CREATE Capital Replacement

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,493	1,368	1,368	1,368	1,368	1,498

Description: The CREATE system was installed in 1970 to support jointly AFLC, AFSC and AU (AFIT). This system is principally a time-sharing machine serving AFSC/AFLC personnel and AFIT students and faculty. Tied to the system are approximately 200 remotes located at the ALCs, AFSC product divisions, and WPAFB. The acquisition is to replace the central site equipment at WPAFB. (AFLC/ADPS 54)

Item: AFALD Network Analysis and Management Information Systems

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	864	659	88	92	96	100

Description: Acquire four mini-computers for AFSC Product Divisions to support the Network Analysis System to be used by the DPMLs for scheduling and managing Integrated Logistics Support. Acquire eight smart terminals to be connected to the CREATE System, installed at the AFALD and AFSC Product Divisions and used by AFLC and AFSC management staffs to portray the status of acquisition programs.

The Network Analysis System implements direction in Air Force and DOD regulations for applying networking to ILS management. The AFLC/AFSC Log MIS offers the creation of an up to date one good program status report, keeping reporting for SPOs to a minimum, while giving commands current status and decision-making visibility of all programs. (AFLC, ADPS 99)

Item: Automated Tech Order System (ATOS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2,865	2,353	762	762	762	801

Description: The purpose of this project is to obtain an Automated Technical Order System (ATOS) in support of the Air Force Technical Order Management Program. The automated TO text and graphic support systems will replace existing inefficient and non cost effective organic preparation methods. (AFLC, ADPS 99)

Item: PRIDE (Formerly Assist) Performance Readiness Initiatives Decision Evaluation System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	3,953	1,988	1,845	1,519	1,598

Description: Automate administrative management and decision analysis functions critical to AFLC support of the Air Force mission. Administrative tasks streamlined and made more efficient. State-of-the-art access to pertinent data put in the hands of the user. Communications between offices and activities enhanced. Increase manager functional productivity. (AFLC, ADPS 99)

Item: Technical Repair Center T.O. Distribution (TRCTOD)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	469	494	6,997	542	566	588

Description: Will electronically distribute technical orders (TOs) to Technical Repair Centers (TRCs), and implement remote user electronic maintenance information distribution. The daily to data base updates and real time availability TRC users will be a reality. Immediate reduction and long range elimination of TO storage and control are tangible cost benefits. Intangible benefit is improved maintenance due to rapid updates and improved information retrieval response times. (AFLC, ADPS 99)

Item: Purchase of Air Staff Information Management Systems (ASIMS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	3004	5991	5884	4637	4395

Description: Purchase of ADPE site preparation, maintenance and contractor software services to support the Air Staff Information Management System. Provides an online, interactive data/information network between the end user and the central site, (AFCC/ADPS 63).

Item: Continued Implementation of the Operations System Network (OPSNET)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	3101	3929	4495	2380	1945

Description: Purchase of ADPE site preparation, maintenance and contract software services to support the operational community. This will allow access to critical data bases; communications with other staff agencies, information storage and suspense management, (AFCC/ADPS 63)

Item: Implementation of Office Automation for the Office of the Secretary of the Air Force.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1081	1196	1063	1022	1127

Description: Purchase hardware, maintenance, software and Contract Services for the Secretary of the Air Foce. This will provide an online, interactive data/information network to support SAF (AFCC/ADPS 63)

Department of the Air Force

Item: Acquisition of End-User ADPE for HQ USAF.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	2983	7281	16624	24127	22379

Description: Purchase hardware, maintenance software and contract services for all DCSs and ACSs. This provides an online, interactive, data/Information network (AFCC/ADPS 63)

Item: Purchase of Mass Storage for the HQ USAF/OSD Multics System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	3400	440	470	500	530

Description: Purchase of additional ADPE including mass storage, central processors, memory disks and other peripherals. ADPE will support HQ USAF and OSD (AFCC/ADPS 63).

Item: Lease-to-Purchase Conversion of HQ USAF Multics ADPE.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	7282	--	--	--	--	--

Description: Purchase of currently leased Honeywell ADPE on the Air Force Data Services Center's (AFDSC), MULTICS computer system supporting HQ USAF and OSD (AFCC/ADPS 63).

Item: Improvements to AFDSC Control Computer Facility.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	--	--	2200

Description: Upgrade the capability of AUTODIN processing in support of Air Staff and OSD customers of the Air Force Data Services Center. Processing of AUTODIN customer traffic will be enhanced by eliminating operator intervention through the automated transfer to the host AFDSC computer for final processing (AFCC/ADPS 63).

Item: Purchase of ADPE to support HQ USAF-MAJCOM Budget Interface .

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	1600	200	210	220

Description: Purchase 1 CPU, associated peripherals, telecommunications equipment, terminals, plotters and maintenance to establish a computerized electronic connectively between the Air Staff and the MAJCOMs. This will allow the MAJCOMs to access data bases which support the Planning Programming Budgeting System (PPBS) at the Pentagon, Air Force Data Services Center (AFCC/ADPS 63).

Item: Replacement of Multiplexor Supporting HQ USAF/OSD/OSAF Remote Computer Sites.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1300	1000	2500	3000	2000

Description: Replacement of multiplexers in support of Air Staff, OSAF and OSD remote computer sites to ensure timely response to uner information requests and increased remote terminals at the Pentagon (AFCC/ADPS 63).

Item: Purchase of Central Computer Facility Improvements to Support ASIMS.

Obligations:	FY 1984	FY 1985	FY 1986*	FY 1987	FY 1988	FY 1989
	--	3116	2843	3371	3330	3894

Description: Purchase a network control center, media conversation center, ARPANET host gate and other improvements to support the Air Staff Information Managements System at the Pentagon, Central Site (AFCC/ADPS 63).

Item: Purchase of Additional ADPE to Support HQ USAF Unclassified Data Processing.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	4800	5600	5400	9500	5400

Description: Purchase one CPU; associated peripherals; 4 datanet 8s to expand DPS 8 system which will provide unclassified interactive processing to support HQ USAF and OSD at the Air Force Data Services Center (AFCC/ADPS 63).

Item: Purchase of Text Processing Equipment for the Air Staff

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1264	170	180	190	200	210

Description: Purchase of minicomputers and maintenance in support of administrative processing for the Air Staff through use of automated text handling office automation technology (AFCC/ADPS 63).

Item: ADP Equipment and Contractor Support to Accomplish the Base Information Analysis (BIA) Program at the Air Force Data System Evaluation Center.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	571	3,200	1,971	550	550	550

Description: ADPE equipment and contractor support for conducting the BIA programs. This is a Congressionally directed program to conduct a structured analysis of all Air Force base level information requirements and to integrate these requirements into target information architectures. (AFCC/ADPS 99)

Item: Contractor Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	4600	6100	7600	7600	7600	7600

Description: "Blanket delivery order" contracts with vendors in the areas of (1) Long-Range ADP Planning, (2) Capacity Management, (5) Local Area Networks, and (6) Telecommunications and Computer Networks to augment the FEDSIM professional staff in support of FEDSIM Customer Basic Agreements as needed. (AFCC/ADPS 99)

Item: ADPE Time

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	278	300	300	300	300	--

Description: Time sharing at the Johns Hopkins University Applied Physics Laboratory (thru the US Naval Sea Systems Command Support Agreement) for FEDSIM Customer Basic Agreements (modeling and simulation) and internal FEDSIM requirements (maintenance of tools and the accounting system.) (AFCC/ADPS 99)

Item: Engineering drawing review stations for Automated Graphics Systems at the EIC .

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	575	66	335	96

Description: Purchase of ADPE, maintenance and site preparation to support the graphics terminals which will allow engineers to view an on-line drawing index and to screen requesting drawing during the engineering phase of a project (AFCC/ADSP 99)

Item: Automated Graphics System (AGS) for 1843EIG

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	693	286	287	287

Description: Purchase of ADPE, maintenance and site preparation to support the automated graphics system for 1843EIG which will reduce the overall cost of maintaining the as-installed drawing data base and the generation of engneering scheme drawings. (AFCC/ADPS 99)

Item: Engineering Data Processing System for the Engineering Installation Center (EIC)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	146	949	86	86

Description: Purchase of ADPE and maintenance to support individual data proprocessing terminals for engineering and administrative personnel. This system will give the design engineer the ability to create required scheme documentation and listings on-screen, post sercharges and amendments rapidly, and permit access to technical data (or sources of technical data) all without having to leave his desk. (AFCC/ADPS 99)

Item: Hardware for Communications-Electronics Schemes Accounting (CESAC) Software Designed System.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	537	295	317	341

Description: Purchase of ADPE, ADPE rental and maintenance funds for the hardware and telecommuications to support the redesigned CESAC System. This system replaces a batch-oriented scheme processing time and providing accurate and autditable material accounting. (AFCC/ADPS 99)

Item: Telecommunications Center AUTODIN Terminal Equipment Replacement and Upgrade Program.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
24,430	10,392	5,283	2,581	2,712	2,851

Description: Purchase of maintenance and software to replace or upgrade Air Force operated and maintained Telecommunications Center AUTODIN Terminals which support command and control electronic warfare ALCM, GLCM, Phase IV and other operational requirements. (AFCC/ADPS 99)

Item: Initial Computer Support - Accounting and Finance Office of the Future.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	9220	8429	3594	3174	3174

Description: Purchase and maintenance for 118 systems to be used at base-level AFOs for all commands. (ADPS 59/27)

Item: Initial Computer Support - Command Budget Automated System

Obligntions:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	4016	711	621	481	503

Description: Purchase and contract maintenance of 18 computer systems. Lease, purchase and contract maintenance for 52 CRTs, 28 serial printers and 25 remote line printers and site preparation and initial lay-in supplies. All commands. (ADPS 59/27)

Item: Initial Computer Support - Dedicated Terminal for ADPS-59 DPI Personnel.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
219	832	632	586	92	96

Description: Lease, purchase and contract maintenance for 154 terminals for all commands. (ADPS 59/P7)

Item: Distributive Network - Operational Local Area Network.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	500	1300	2500	3500	4500	6000

Description: Provides purchase, site preparation, maintenance and contract services for Local Area Network located at AFDSDC. (AFCC/ADPS 59/P7)

Item: Initial Computer Support - Advanced Concepts.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	600	1840	1840	1840	1840	1840

Description: Provides site preparations, civilian pay, military pay, supplies, lease, telecommunications, and contract services supporting Advance Concepts Base Program at AFDSDC. (AFCC/ADPS 59/P7)

Items: Equipment Maintenance Programmer Work Station.

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	193	194	209	225	243	258

Description: ADPE maintenance for AFDSDC programmer work stations. (AFCC/ADPS 59/P7)

Item: Initial Computer Support - Automated Food Services Operations System (AFSOS).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	6334	3124	1246	1313	1380

Description: Purchase, site prep, maintenance and telecommunications for 131 systems for all Commands. (ADPS 59/P7)

Item: Initial Computer Support - Work Information System (WIMS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	216	13,735	16,607	16,988	6174	6490

Description: Lease, purchase, maintenance and site prep for 104 systems for civil engineering functions for all Commands. (ADPS 59/53)

Item: Initial Computer Support - Work Information System (WIMS MAJCOM System).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	5158	2063	2798	2829	2851	3064

Description: Purchase, maintenance, site preparation and telecommunicatins for MAJCOM civil engineering, all Commands. (ADPS 10)

Item: Initial purchase and maintenance for micro/mini computers for Branch Level Training Management.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
400	1120	1120	1120	400	400

Description: To provide distributed processing stations and center-level microcomputers for automation technical training center management, student accounting, resource management testing and student publications management at ATC Technical Training Centers (ATC/ADPS 99)

Item: Initial Computer Support - Air Force Computer Security Program.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
200	561	709	2727	3555	4842

Description: Provides purchase, maintenance, contract analyst, for the Air Foce Computer Security Program (AFCC/ADPS 98).

Item: Computer Replacement of HQ USAF Multics.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	370	2300	5200	11400	33600

Description: Replacement of MULTICS to continue the classified computer support for the Air Staff and OSD and USAF (AFCC/ADPS 63).

Item: Purchase of Computer Performance Measurement System.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	550	55	60	65	70

Description: Purchase a performanace data measurement system to provide real-time computer systems performance data for both day to day operations and long-term data for capacity. (AFLC/ADPS F9)

Item: ADP Program/Project Planning, Control and Support System.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
490	1,463	1,099	1,370	1,508	811

Description: Acquisition of a program management application software system, equipment on which to process the application, and the services to institutionalize a program management methodolgy.

Item: Ogden ALC Scientific Engineering and ATE Support.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1.010	949	949	949	949	1,061

Description: The ADPS provides scientific and engineering support for a variety of weapon systems management. It also supports the five ALCs for preparation/change of Automatic Test Equipment (ATE) computer programs. (AFLC/ADPS F7)

Item: Initial Computer Support - Publications Information Printing and production System (PIPPS).

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,000	--	--	--	--

FY 85 Funds exceed $500,000.

Description: Purchase of ADPE, site preparation, maintenance, contractor integration and software services to prototype a Publications Informationation Printing and Production System (PIPPS) for AFF/DA. (HQ USAF/ADPS 99)

Item: RADC Information Mangement System.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	3,000	3,500	3,500	3,500	2,500

Description: ADPE to support an IRM program at RADC, which is part of the AFSC LONS Program. (AFSC, ADPS 99)

Item: Enviromental System for Building 7000.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
435	800	--	--	--	--

Description: Provides for the procurement and installation of support equipment to provide controlled temperature and humidity conditions in critical equipment areas within building 700 at the Western Space and Missile Center which are mandatory for launch support (WSMC/ADPS 18).

Item: Uninterruptible Power Supply (UPS).

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	1200	--	--	--

Description: The UPS system filters commercial power and supplies sophisticated computers with clean efficient power. The system also provides an instantaneous backup capability to the computers should there be a power outage. This prevents data loss or computer damage. The system will be installed in conjunction with the construction of AFMPC's new computer/war readiness facility jointly scheduled inthe FY 85 Military Construction Program. (AFMPC/ADPS 99)

Item: Funding in support of ancillary equipment used to support standard base level system throughout TAC.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,302	1,262	10	10	10	10

Description: Rental and maintenance funding for ancillary support to include PCAM equipment, tape cleaner/certifiers, word processing equipment etc... in support of standard base level systems throughout TAC. (TAC/ADPS HB/12896)

Item: Initial Computer Support Software Development Facility.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
973	556	367	379	240	141

Description: Provides purchase, rental, maintenance, system analyst and contract services for the software development facility renamed Computer Aided Software Development Enviroment (CASDE) at AFDSDC. (AFCC/ADPS 59/P7)

Item: Computer Enhancement Systems Upgrade.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
952	57	59	62	65	68

Description: Purchase, lease, and maintenance for upgrade to the new Phase IV computers located at AFDSDC. (AFCC/ADPS 59/P7)

Item: ASD Scientific and Engineering Support.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	500	1,500	1,500	1,500	1,500

Description: ADPE rental and associated services to provide Scientific and Engineering (S&E) computer support from the ASD Computer Center, Wright-Patterson AFB, OH. The support required is in the form of medium class computers (MCC) to very large class computers (VLCC) and for dis storage space. This support will insure that the S&E community has the capability to evaluate new technology in a more thorough and more timely manner.(AFSC/ADPS 99)

Item: Aircraft Weapon Systems Management Information System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
264	12,501	1,308	546	791	625

Description: The Aircraft Weapon System Manager Information System will be used to track and access aircraft logistics support posture and readiness from a wholesale and user viewpoint. Needs include tech nical data of aircraft configurations, status of modifications, mishap/incident investigation results with associated trend analysis, mission capability statistics, basing postures, funding, supply, equipment, and depot maintenance programs and wartime limiting factors. Development of this system will be modular each Air Logistic Center a portion of the system design and development with a command-wide effort for implementation. Existing systems will be used to the maximum extent possible. The Weapon System Manager Information System will enable individual system managers to address issues affecting their weapon system's ability to perform peacetime/ wartime mission. (AFLC/ADPS L1)

Item: Programmed Restructuring of Management Information Systems

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2,244	9,154	819	739	772	--

Description: PROMMIS is a long range program to improve maintenance management system rmponsiveness and utility. Projected benefits include a 30%-50% reduction in current system operation and maitenance costs; increased management productivity valued at $5M; increased labor productivity valued at $6M; improved material control for an annual cost avoidance of $1M; and improved custmer support $3M annually. (AFLC/ADPS L1)

Item: Requirements Data Bank (RDB)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	3,593	22,071	23,609	23,496	17,580	19,726

Description: The RDB will enhance and expand the requirement operations systems and the requirements management information systems. The requirements operations systems are involved with day-to-day mangement of items. These systems provide item information on how much and when to repair, buy, terminate from contract, or dispose of excess. Enhancement of the requirements operations sytems is essential to provide the necessary baseline for the development of executive management requirements information systems. These systems will support simulation and decisions models required to make resource and strategic decisions on logistics alternatives and to support force readiness and capability measurement. (AFLCC/ADPS L1)

Item: Comprehensive Engine Management System (CEMS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,287	7,166	200	--	--	--

Description: CEMS is an Air Force system that will encompass all facets of engine management. This system will provide the data and management. This system will provide the data and management information required by Air Force bases and Air Logistics Centers maintenance and engine management personnel, major command headquarters personnel, and Air Staff planning personnel. The system will include the tracking (by serial number) of life cycle limited parts on selected modular engines, a complete inventory control and requirements computation system for all Air Force engines, and engine diagnostics capability. (AFLC, ADPS L1)

Item: Engineering Data Computer Assited Retrieval (EDCAR) System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	3,010	5,382	9,046	800	800	--

Description: This project will automate the current labor intensive engineering data services center files consisting of approximately 5 million engineering data aperture cards at each of the five Air Logistics Centers, 15 million cards at HQ AFLC and 5 million cards at the Aerospace Guidance and Metrology Center. The unique nature of the requirement, the commercially available equipment and software, and the non-interfacing nature of engineering data application makes the EDCAR approach cost effective. (AFLC, ADPS L1)

Item: Local Area Network (LAN)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,833	1,914	5,395	4,301	1,828	1,944

Description: Install a modern LAN at HQ AFLC, the five Air Logisitics Centers and AGMC to provide connectivity between the various functional distributed logistics management systems in the LFSMS Modernization Program. This includes a: 3,800 specialized bus interface devices per site, software interfaces to convert protocols and control media access, seven cable plants to serve as the physical medium to provide connectivity between all attached computers and terminals, and systems engineering services required for definition, design, and installation of networking to support terminal-to-computer and computer and computer-to-computer applications in both homogeneous and heterogeneous equipment environments. (AFLC/ADPS L1)

Item: Support for AFSC System Program Office (PACER Acquire)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
449	2,600	2,800	3,000	3,000	3,000

Description: Provide systems engineering support to the joint AFLC/AFSC system program office for the development and acquisition of selected AFLC Logistics Management Systems. The system program office will require a stable level of system engineering support to ensure the proper integration of projects. (AFSC/ADPS L1)

Item: Weapons Systems Design Computer System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,850	5,150	4,650	4,750	6,750	7,650

Description: Develop new computer-based technologies to enable the design of more reliable/maintainable weapon systems, and to obtain new technologies to improve maintenance/support for systems while reducing requirements for highly skilled maintenance personnel. (AFSC/ADPS)

Item: Unified Data Base (UDB)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,125	1,135	1,142	1,625	--	--

Description: Demonstrate application of a Unified Data Base (UDB), which technology will provide consistent, traceable and easy-to-use weapons logistic data during the acquisition cycle through transition to AFLC. This technology will provide for design trade-off studies, reliabilty and supportability studies, etc. (AFSC/ADPS)

Item: Integrated Management Information System (IMIS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	--	--	--	4,400

Description: Initial Development of Integrated Maintenance Information System (IMIS). The IMIS will define additional requirements for the embedded computer to produce useful data to diagnose, maintain and manage the aircraft. This new data will be linked to an integrated array of new and existing maintenance management systems via a computer-based, portable job and that will provide all technical order, diagnostic, training, scheduling control management and supply information that is required by the maintenance technician. (AFSC/ADPS)

Item: Initial computer support - Logistics Information Management Support (LIMSS) prototype.

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
300	3,000	4,000	4,000	--	--

Description: Procure ADPE, local area network systems, contractor software development services, maintenance, and related contractor Services to prototype a Logistics Information Management Support system (LIMSS) at Griffiss AFS, NY and a centralized intermediate logistics system network for HQ PACAF. (AFSC/ADPS 99)

Item: Initial computer support to complement AN/GYQ-21(V) reutilization provided ADPE to support intelligence skill training

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	327	195	203	212	222

Description: Purchase and maintenance of TEMPEST qualified personal-size computer system to accommodate Intelligence data handling and cryptological training for Army, Navy, and Air Force cryptological linguists and analysts at Goodfellow AFB TX. (ATC/ADPS 90)

Item: Upgrade of HON 6060-Randolph AFB TX

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
288	2,063	1,137	129	134	140

Description: Purchase and maintenance of Honeywell equipment to provide enhancements to SMART data base to add training locations and course description; increase on-line activity due to reorganization of Recruiting Services files; increase Flying Training history files to accommodate a dual-track training program; major expansion of accounting for AIMSETS and expansions of TDY-to-School open allotments system. (ATC/ADPS 10)

Item: Very Large Class Computer for Scientific and Engineering Support

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,054	2,008	2,008	2,008	2,008

Description: Lease of a very large class computer to provide support for scientific and engineering applications requiring large computational resources and the use of the parallelism of an array processor at the ASD Computer Center (Central Site), Wright-Patterson AFB, OH. Workload surveys showed an immediate requirement for this class of computer. (AFSC/ADPS 43)

Item: Replacement of CDC Cyber 74 and CDC Cyber 170

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	799	1.020	1,020	1,020	1,020

Description: Replacement of government owned CDC Cyber 74-18 central processing system (CPU) with a leased CDC Cyber 170-835 CPU and an owned extended core storage (ECS) with a CDC 2097K extended semiconductor memory (ESM) (FY84/85). Upgrade of the leased CDC Cyber 170-750 CPU to a CDC 170-835 (FY85/86). Also to replace line printers and acquire an additional network processing system. This ADPE will restore and enhance the level of ADP support to the scientific and engineering community from the ASD Computer Center (Center Site support), Wright-Patterson AFB, OH (AFSC/ADPS 43).

Item: Metric Data Processing System (MDPS) Computer Hardware Replacement

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	--	--	--	2,750

Description: This effort includes the definition, design and implementation of the new automatic processing equipment which must meet all the metric data processing requirements in a real time configuration of an integrated network of Class 5 type computers and a single dedicated non-real time processor for non-real time processing. This, the first year of a four year effort, provides for contractor support and site preparation at the Western Test Range, Vandenberg AFB, CA. (WSMC/ADPS 18).

Item: Enhancement of Electronic Warfare Data Processing Equipment

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,129	830	1,350	1,040	1,040

Description: Purchase of computer systems peripherals and central processing units to upgrade installed owned Digital Equipment Company VAX 11/780s and Perkin Elmer 3240 systems at the Air Force Avionics Laboratory, Wright-Patterson AFB, OH. Upgrade will provide replacement disk and tape drives (FY84/85), new technology printers (FY85/86), increased memory (FY85) and related peripherals and support (FY87/89). (AFSC/ADPS 43)

Item: Provide purchase and maintenance to support the Time Related Instructional Management System (TRIM)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
341	4,092	2,722	1,175	1,225	1,278

Description: This requirement supports undergraduate flying training to provide on-line support for resource management and training administration as well as to facilitate computer assisted instruction (CAI) for selected academic subjects in the UPT syllabus. (ATC/ADPS 99)

Item: Initial Computer Support - Contingency Operations/Mobility Planning and Execution System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,020	1,130	347	270	280	290

Description: Provides purchase, lease, maintenance, site preparation and telecommunications for worldwide use supporting COMPES. (All commands/ADPS 80)

Item: Computer Replacement of HQ USAF IBM 3032 Dual Processor System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,700	7,200	10,300	600	4,000	1,100

Description: Initial purchase of IBM 3032 replacement system. The IBM 3032s provide classified processing to HQ USAF and OSD in support in the modeling of major strategic and tactical situations at the Pentagon. (AFCC/ADPS 63)

Item: Electronic Warfare Avionics Integration Support Facility (EWAISF)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,949	1,904	999	999	999	1,091

Description: EWAISF is supported by a UNIVAC 1108 at WR-ALC. It provides the Air Force with the capability to support the hardware and software elements of computer controlled airborne electronic warfare systems. (AFLC, ADPS L1)

Item: Weapon System Support - LCOM

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1,925	2,055	2,965	473	486

Description: The requirement is for computer systems to support processing of the Logistics Composite Model for aircraft maintenance manpower determinations and mission capability assessment studies. Funds provided for lease of one prototype computer and associated peripherals. (AFMPC/ADPS-14)

Item: Equipment rental and maintenance in support of the Intelligence Data Handling System (IDHS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	707	416	436	450	364	378

Description: Provides ADPE to support of the Intelligence Data Handling System. Purchase funds are needed to upgrade the IBM 360/40 computer to an IBM 4341 system. This program is to provide the Headquarters staff, the 480th Reconnaissance Technical Group (RTG), and the 9th and 12th Tactical Intelligence Squadrons (TIS) with access to target lists, previous reconnaissance results, mensuration routines, and automated target location resolution. (TAC/ADPS 90)

Item: Initial Computer Support - Logistics Communications, Command, Control, and Intelligence (LOG C^{3}I)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	4,000	6,000	10,000	7,500	4,000

Description: Procurement of ADPE, local area network communications system, contractor software development services, maintenance, and related contractor services to support development, acquisition, and implementation of a Logistics C^{3}I system for AFLC. (AFLC/ADPS 99)

Item: Information Center 1 Acquisition

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,160	810	846	--	--

Description: Consolidation of non-launch critical data processing within Western Space and Missile Center including the following functions: range documentation, range scheduling, information systems, host processing for office automation, computer reliability, and ADP security. (WSMC/ADPS 18)

Item: Purchase of a Maintenance Test and Simulation System (MTSS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,200	--	--	--	--	--

Description: Provides a depot level maintenance facility for SEL based computer systems in the Data Processing Installation (DPI) 6344 inventory; e.g., Telemetry Integrated Processing System (TIPS), Integrated Meteorological Processing System (IMPS), and radar embedded computers. (WSMC/ADPS 18)

Item: Image Processing Facility Upgrade

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
340	1,380	1,365	1,235	595	355

Description: Acquisition and maintenance of an upgraded processing laboratory in support of RADC's programs of image exploitation, precision targeting, photogrammetric analysis and DMA product generation. (AFSC/ADPS 99)

Item: Missile Warning Bypass System software support

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
200	254	270	286	303	324

Description: Contract services to support software maintenance, modification, test and integration for the Missile Warning Bypass System. (SPACECOM/ADPS 80)

Item: Equipment maintenance for Mission Control Center (MCC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	659	1,692	1,784	1,804	1,912

Description: Provides funds to maintain ADPE for the Air Launched Antisatellite (ALASAT) Mission Control Center to be located in NCMC. The MCC will prepare lists of intercept opportunity, probability of kill estimates, engagement plans, mission data and assurance calculations. The contract has not been determined. (SPACECOM, ADPS 80)

Item: Analytical support to develop ADP mission architecture implementation/integration plan for NCMC

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
217	420	463	510	560	613

Description: Contractor technical support to help develop a detailed technical analysis to assure a smooth integration of the ADP architecture plan for the NCMC. This support will integrate five major ADP acquisitions and insure compatibility of these systems. The systems are CCPDS-R, CSS-R, NCCS, SPADOC IV, and the IDHS upgrade. (SPACECOM, ADPS 80)

Item: Replacement computer systems for the AN/FPS-17-79 and AN/GPS-10 radar systems and software development for the new systems

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
166	4,822	4,867	26	26	27

Description: Replacement of 20-year-old SIGMA 5 computer systems at Pirinclik, Turkey and San Miguel, Philippines. The computers at the AN/FPS-17/79 radar system, Pirinclik and the AN/GPS-10 radar system at San Miguel will be replaced with DEC/VAX computers. Specific models have not been determined yet. (SPACECOM/ADPS V5)

Item: Equipment rental, equipment maintenance, and software support for satellite Tracking Facility

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,509	6,286	5,895	5,775	6,064	6,367

Description: Provides rental, purchase maintenance, and contractual services support for computer systems at Lowry AFB and Buckley ANG, CO. (SPACECOM/ADPS 79)

Item: Initial computer acquisition, software development, and equipment maintenance for the Status Configuration and Alarm Notification System (SCANS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,443	3,049	6,268	1,715	2,207	917

Description: Purchase of ADPE, site preparation, maintenance and contractor software services to support SCANS for the NORAD System Control Operations Center. This project will provide a fully automated status, configuration, and alarm notification system, independent of current NCMC systems, to monitor all current and future NCMC ADP systems. SCANS will also provide a data base collection capability to analyze NCMC outage trends and maintenance trends. (SPACECOM/ADPS 80)

Item: Communications System Segment Computer replacement maintenance and additional software support for the existing Communications System Segment until full operational capability of the replacement system

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
980	988	2,038	3,289	3,392	3,522

Description: The Communications Systems Segment (CSS) provides internal/external interfaces and all message processing and routing functions for the worldwide network of sensors supporting NORAD's missile warning, space defense, and air defense missions. A significant number of new sensor sites, planned upgrades to existing circuits, and necessary enhancements to improve man/machine aspects of operating the CSS has resulted in a sizable workload backlog. The additional support will reduce the backlog. Also provides hardware maintenance for the communications system segment-replacement. (SPACECOM/ADPS W1)

Item: NCCS maintenance and Software development

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,159	11,038	20,035	28,240	33,189	42,823

Description: Replacement of the NORAD Computer System (NCS), Modular Display System (MDS), and the NORAD Command Post within the Cheyenne Mountain Complex. (SPACECOM/ADPS 80)

Item: Contract Services

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,670	2,880	2,895	2,909	2,996	3,084

Description: Provides contract services to maintain BMEWS site software, hardware, and interface equipment. (SPACECOM/ADPS V4)

Item: Equipment rental and software support

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
975	975	525	525	525	525

Description: SLBM sensor system software maintenance efforts, contract services support and lease of the Cyber 170/720 for the Pave Paws Systems Programming Agency at Beale AFB. (SPACECOM/ADPS V6)

Item: Missile Warning Monitoring System software

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
200	212	230	252	279	310

Description: Maintenance and improvement software to perform the Missile Warning Monitoring System mission. (SPACECOM/ADPS 80)

Item: Equipment rental and maintenance at the Off-Site Test Facility

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,114	5,474	5,853	6,261	6,697	7,165

Description: ADPE acquisition and maintenance of the Off-Site Test Facility computers to test and develop software for the NORAD Cheyenne Mountain Complex. Two Honeywell 6660s and one DEC VAX 11/780. (SPACECOM/ADPS W1)

Item: Equipment lease, maintenance and software support for the existing Command Center Processing System. Provides funds for site preparation and an interface study for the Command Center Processing System replacement

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,218	3,022	2,157	2,536	2,490	2,329

Description: Provides funds for maintaining the present system, a UNIVAC 1100/42 and funds for an interface study. Also provides site preparation funds for Command Center Processing System Replacement and contains peripheral replacement funds. (SPACECOM/ADPS V8)

Item: Equipment lease, maintenance, software development, and acquisition funds in support of Space Command Headquarters

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,506	1,398	1,535	1,419	1,640	1,722

Description: Provides funds for ADPE acquisition, maintenance, and software support for existing systems used to support Space Command Headquarters. (SPACECOM/ADPS 03, 99, W1)

Item: Equipment maintenance - FACC

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,000	2,106	2,205	2,313	2,429	2,598

Description: Provides maintenance and training to support the 427M system. (SPACECOM/ADPS 99)

Item: Software development and conversion support for the Radiation Intelligence Management Analysis System (RIMAS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
750	500	900	500	--	--

Description: Contractor software conversion support for transitioning from a DEC PDP 11/70 minicomputer to a Sperry S1100/80 mainframe in FY84. Contractor software development support to dovetail with in-house efforts to provide four essential functions for RIMAS: analysis, collection management, data base management and reporting. HQ ESC, Kelly AFB, TX (ESC/ADPS 28)

Item: Funding in support of the Region Operations Control Centers (ROCC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,635	892	499	450	442	462

Description: Funding provides continuation of maintenance and software for government-owned ADPE in support of JSS, Radil and ROCC functions. Decrease of funds after FY84 is the result of closure of Sage sites and discontinuance of installed Varian 77 system. (TAC/ADPS W9)

Item: Funding in support of the Tactical Air Control Center (TACC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
402	408	427	425	425	425

Description: Funding provides continuation of maintenance and software for government-owned ADPE in support of CAFMS and 407L system functions. (TAC/ADPS 7D)

Item: Real Time Operating System/Storage and Retrived System (ATOS/STARS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
470	550	583	618	655	--

Description: Contractor support for maintenance of Real-Time Operating System (RTOS) and Storage and Retrieval System (STARS). These are MAC-unique executive systems software (ESS) on two Honeywell H6080 and three Honeywell H6060 mainframes. (MAC/ADPS 80)

Item: Computer Replacement for Sperry 1100/21 at Operating Location A(OL A), USAF Environmental Technical Applications Center (USAFETAC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	4,834	477	494	545

Description: Purchase ADPE, maintenance, site preparation, and system analyst support to replace a saturated government-owned Sperry 1100/21 at Operating Location A, (OL A) USAF Environmental Technical Applications Center (USAFETAC), Ashville NC. (MAC/ADPS 15)

Item: Replacement computers for three Sperry 1110 computers at the Air Force Global Weather Central

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	2,706	10,037	4,843	1,217

Description: Initial lease and subsequent purchase of ADPE, maintenance, vendor software and systems analysts for replacement computers at the Air Force Global Weather Central at Offutt AFB NE. Provides the capability to process high resolution meteorological satellite data and additional meteorological satellite data required to support USAF precedence 1-1 programs. (MAC/ADPS 15)

Item: Computer Enhancement for the Advanced Weather Analysis and Prediction System (AWAPS) data distribution computer system at the Air Force Global Weather Contract (AFGWC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	--	--	680	2,425

Description: Purchase additional memory and add processors to the data distribution system computers at the Air Force Global Weather Central (AFGWC), Offutt AFB NE. (MAC/ADPS 15)

Item: Computer System Replacement for the USAF Environmental Technical Applications Center (USAFETAC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	--	--	8,177	450

Description: Purchase ADPE, site preparation, and maintenance to replace obsolescent, saturated computer resources at the USAF Environmental Technical Applications Center (USAFETAC), Scott AFB IL. (MAC/ADPS 15)

Item: Computer Replacement for two UNIVAC 1100/82 computers at the Air Force Global Weather Central

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	--	--	12,335

Description: Purchase ADPE, maintenance, vendor software and systems analysts for computer replacement of two UNIVAC 1100/82 computers at the Air Force Global Weather Central at Offutt AFB, NE. Provides processing capacity to implement the AF Advanced Computer Flight Plan System (ACFP) and to process additional meteorological data from new sources to support worldwide military operations. (MAC/ADPS 15)

Item: Contractual services to assist the Air Force Global Weather Central in the concept, definition, development and test phases of the ACFP software

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	571	302	527	660	345	1,160

Description: Contractor assistance in the development of the ACFP software to meet MAC, SAC and ATC centralized computer flight plan (CFP) requirements. Replaces the existing CFP software at the Air Force Global Weather Central, Offutt AFB NE. (MAC/ADPS 15)

Item: Computer Enhancement at Operating Location A, USAF Environmental Technical Applications Center (OL A, USAFETAC)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	--	--	2,170

Description: Purchase additional memory and add a processor to the saturated government-owned computer at OL A, USAFETAC, Ashville NC. (MAC/ADPS 15)

Item: Computer System Enhancement for the USAF Environmental Technical Applications Center (USAFETAC) and Operating Location A, (OL A), USAFETAC

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	--	4,150	328	359

Description: Purchase a main data storage device, interface processors, software, maintenance, and training to establish a data base management and remote interactive data base access capability between USAFETAC, Scott AFB IL and OL A, USAFETAC, Ashville NC. (MAC/ADPS 15)

Item: Additional computer for advanced weather analysis and prediction at Global Weather Central (AFGWC)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	12,112	1,445	1,602	1,765	1,939	2,194

Description: Purchase a Class VI scientific processor, a general purpose processor data distribution system, an intercomputer communication system, system analyst support, training, and maintenance to produce accurate, high resolution, worldwide forecasts at the Air Force Global Weather Central (AFGWC), Offutt AFB, NE. (MAC/ADPS 15)

Item: Computer replacement for IBM 4341 at the USAF Environmental Applications Center (USAFETAC)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
894	672	169	178	187	206

Description: Purchase ADPE, site prep, maintenance, training and limited system analyst support to develop interactive user capability to produce timely, accurate and detailed environmental analysis at the USAF Environmental Technical Applications Center (USAFETAC), Scott AFB IL. (MAC/ADPS 15)

Item: Computer enhancement for the Consolidated Aerial Port Subsystems (CAPS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,613	6,003	4,604	1,429	1,507	8,350

Description: Purchase of ADPE, lease of equipment, and associated systems analyst support for CAPS. CAPS will enhance automated support for the cargo and passenger functions at the CONUS aerial ports and selected overseas ports. CAPS will provide automation to support the MAC aerial ports during contingencies as well as day-to-day operations. (MAC/ADPS 72)

Item: Initial computer support for Airlift Implementation and Monitoring System (AIMS) Phase III, Enhanced Airlift Reporting for Logistics and Operations (EARLO) and MAC Airlift Control Center Theater Airlift Management System (TAMS)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,296	1,299	--	--	--	--

Description: Purchase and maintenance of minicomputers at each MAC Wing to provide local managers with airlift mission data and analysis for their units. (MAC/ADPS 72)

Item: Acquire and install intercomputer network at HQ MAC

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
500	300	723	946	425	556

Description: Purchase and maintenance for a front-end processor, high-speed bus, and data access system that will allow HQ MAC to evolve to a mainframe intercomputer network. (MAC/ADPS 72)

Item: Computer enhancement for Honeywell 6000 computers at Scott AFB

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,600	1,600	1,600	--	--	--

Description: Purchase of ten DPS-8 kits for Honeywell computers at HQ MAC, Scott AFB, IL. (MAC, ADPS 7L)

Item: Acquire Uninterruptible Power System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,099	49	49	49	49

Description: Purchase and maintenance of an uninterruptible power system that will provide the power reliability need at HQ MAC, Scott AFB, IL to support the primary computers that support MAC and the National Command Authority (NCA). (MAC/ADPS 72)

Item: Development and implementation of a distributed information processing system to support MAC Command and Control

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,100	1,700	4,300	8,700	36,000	58,400

Description: Purchase, maintenance, research & development, and site preparation for a system that will provide a Command and Control information capability for HQ MAC, MAC AFs, COMALF, ALD, Units, and ALCE echelons. Processing within these echelons would be provided by a set of distributed processors connected by a local area network. System will be installed at all MAC operating locations. (MAC/ADPS 72)

Item: Acquire Deployment Flow Computer

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	1,642	2,041	3,767	3,266	4,324

Description: Purchase of ADPE, site preparation, maintenance, and contractor software services to support crisis airlift planning, peacetime airlift plan development, and analyses using MAC's airlift simulation model at HQ MAC, Scott AFB, IL. (MAC/ADPS 72)

Item: Replace Honeywell computer

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	--	--	5,140	10,240

Description: Purchase to competitively replace existing Honeywell computers at HQ MAC, Scott AFB, IL. (MAC/ADPS 72)

Item: Initial computer support for the Command Readiness Exercise System (CRES)

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
493	14,237	4,425	4,965	5,969	6,213

Description: Purchase of ADPE, lease of selected ADP equipment items, maintenance, system software, and contractor developed application software for the Air Force Wargaming Center in support of PME at Air University, Maxwell AFB, AL. (AUM/ADS-KC)

Item: Initial computer support for distributed processing for the Strategic War Planning System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	--	846	1,100	1,100	1,100

Description: Purchase and maintenance of ADPE necessary to establish distributed processing capabilities for the Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Air Launched Cruise Missiles (ALCM) Mission Planning Support

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	6,339	7,929	7,635	7,301	6,924

Description: Contractor developed software and on-site technical representatives to support automated planning of Air Launched Cruise Missiles to include automatic target application, automatic ALCM routing and mission analysis tools. (SAC/ADPS 90)

Item: Computer replacement for IBM 3081K for the Strategic War Planning System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,118	4,905	5,121	7,871	8,302	8,777

Description: ADPE acquisition and contractor software development for new computer replacement for the Single Integrated Operational Plan production computer support system of the Stragegic War Planning System at HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Software development for Mission Data Preparation System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	409	323	398	422	600

Description: Contract services to support software maintenance and development for the Mission Data Preparation System (MDPS). Required to provide direct operational support for the B-52G/H Offensive Avionics System or B-1B equipped units. Development system is located at HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 99)

Item: Graphics Terminal enhancement for Strategic War Planning System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	504	552	831	567	876

Description: ADP equipment, and maintenance of new generation graphics terminals in support of various planning applications on the Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Terminal replacements for Strategic War Planning System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
--	575	650	1,460	1,091	907

Description: ADP equipment purchase, and maintenance of new generation, intelligence terminals in support of war planning application, distributed processing, and increased efficiency of war planning support provided by the Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Computer Communications Control Units for Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	303	317	331	339	362

Description: Replacement of existing communication processors with units of increased capacity and functional flexibility required to support the central computer facility of Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Data Communication ADPE to Support Distributive Network Service for the Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	700	1,050	850	2,870	3,800

Description: Purchase of ADPE, maintenance, and contractor support to develop operation concepts, system protocol, system software interfaces and applications software required for initial and subsequent distributed systems modes for the Strategic War Planning System, the Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Disk Storage Enhancement for Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	222	427	1,143	1,949	2,762

Description: Acquisition of additional disk storage units required by expanding data storage needs and the necessity to optimize computer system performance of the Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Array Processor Computer System Enhancement for Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1,800	2,709	6,465	7,899	9,324

Description: ADP equipment, contractor software conversion support, equipment purchase and maintenance for array processor system enhancement required to support computationally intensive applications of the Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Software development in support of the Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	150	325	226	300	500	800

Description: Contract software development support for war planning applications specific to the Directorate of War Plans, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: Software redesign in support of the Strategic War Planning System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	1,190	1,000	1,135	1,432	1,518

Description: Initial and follow-on contractor software redesign of system-wide software intrastructure to support and integrate array processing, system networking, data base redesign, and data communications in support of the central computer facility development, Strategic War Planning System, HQ Strategic Air Command, Offutt AFB NE. (SAC/ADPS 90)

Item: PEACEKEEPER Airborne Command Post ADP Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	--	4,500	3,880	3,081	2,000

Description: To purchase ADP equipment required to upgrade the SAC Airborne Command Post Computer System to permit increased data base size and processing requirements necessitated by the addition of the PEACEKEEPER missiles to the SAC weapons inventory. (SAC, ADPS 90)

Item: AFLC Command, Control, Communication and Intelligence (C^3I)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,602	3,351	3,100	15,056	13,297	3,386

Description: The C^3I will give the Air Force and AFLC strategic, tactical and joint deployment force tasking. The system will provide operational and logistics commanders information concerning current level of readiness, project endurance and sustainability, both peacetime and wartime. The system will provide capability to predict and assess the logistics supportability of war scenarios and planned sorties rates. It will also provide secure and survivable connectivity between strategic, tactical and logistics combat forces; manpower to operate the system will be obtained through realignment within existing authorizations. (AFLC, ADPS 80)

Item: Inertial Guidance System Test and Maintenance Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	412	412	912	282	282	312

Description: A single Magnuson M80/43 supports the Aerospace Guidance and Meteorology Center (AGMC) located at Newark AFS, Ohio. It provides analysis of data generated during the end item test, repair, and calibration of inertial measurement units for Titan and Minuteman Missiles, and iner tial navigation systems for assorted aircraft, including the F-4, F-111, and C5A. (AFLC, ADPS, F4)

Item: Upgrade IBM 4341 at OO-ALC

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	522	522	522	522	522	603

Description: Upgrade the availability of an adequate computer processing source for the weapon systems of the Air Force, specifically the MX weapon system and growth potential for the data systems that support the readiness capability. (AFLC, ADPS F7)

Item: Maintenance Analysis Structural Integrity Information System (MASIIS).

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	3,016	3,277	3,535	3,880	3,880	5,262

Description: The ADPS consists of twin AMDAHL 470-V7 located at Oklahoma City Air Logistics Center, with remotes at multiple sites. The logistics processes which are supported include: Requirements Maintenance, Process Support, Improvement and Base/Command/Tenant Support. MASIIS incorporates the requirement of the aircraft Malfunction Detector Analysis and Recording System/Ground Processing System and the Aircraft Structural Integrity Management Information System into a single ADPS. (AFLC/ADPS L1)

Department of the Air Force

Item: MX Missile Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	--	2,004	377	224	214	223

Description: Existing ADPE resources at Hill AFB, Utah are not sufficient to suppor the addition of the MX Missile System. Current plans include lease or purchase remote equipment to access existing data systems.

Item: Wartime Assessment and Requirements System (WARS)

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	4,000	7,500	7,600	7,600	7,600	7,050

Description: Provides resources for AFLC to modernize the materiel requirements com putational process for the Air Force. The new system will replace the current separate systems used in teh areas of recoverable, expendable, and replaceable items. It will compute requirements based on weapon system availability, create a better link to the budget process, and expedite repair decisions. It will provide a modeling capability for accessing wartime requirements. (AFLC/ADPS L1)

ITEM: Stock Control and Distribution (SC&D) System

OBLIGATIONS:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	18,783	43,128	32,448	17,045	17,096	24,087

DESCRIPTION: The SC&D upgrade project will modernize and consolidate a significant portion of the Stock Control and Distribution Systems into one Standard Integrated Transaction Oriented System, operating in an on-line environment. Successful completion of the project will satisfy the requirement to improve AF readiness by accomplishing 3 broad objectives: (1) improve AFLC's asset visibility and ability to direct and control use of resources; (2) improve AFLC's logistics process for more efficient use of resources; and (3) move toward common systems within DOD without compromising AF requirements. (AFLC/ADPS L1)

ITEM: Base Level Information Services Program

OBLIGATION:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	83,609	144,770	62,680	28,875	26,444	26,729

DESCRIPTION: The Phase IV acquisition Program, the largest single component of the Base Level Information Services (BLIS) Program, will modernize existing base level processing capabilities and provide operational support to base level users through the 1990s. The ADP system will be modularly expandable and upgradeable to accommodate future ADP requirements, including transportable systems, as they are defined and approved. Other components of the BLIS program include acquisition of small computer systems to support Accounting and Finance, Surgeon General and Engineering and Services. Phase IV is an Air Force-wide Capital replacement Program to replace existing out of production and obsolete automated data processing equipment (ADPE) (B3500/3700/4700 and U1050-II). Sperry-Univac was selected on 27 Jan 1983 as the Implementation Period contractor and will transition a portion of the remaining AF standard software, train AF personnel on the new equipment, provide programmer/analyst support for the development centers, assist the AF with implementation/conversion of the equipment and maintain the transitioned software until final system acceptance. (AFDSDC/ADPS) 59)

DEPARTMENT OF THE ARMY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

ITEM	ARMY CIVILIAN PERSONNEL SYSTEM (ACPERS)					
FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1692	7711	5883	4625	3315	3224
DESCRIPTION	Provides automation support for CIVPERCEN manning, career develpment, and other personnel functions.					
ITEM	ARMY FOOD MANAGEMENT INFORMATION SYSTEM (AFMIS)					
FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	3500	10580	12060	5138	2780	2780
DESCRIPTION	Provides for system to positively identify personnel authorized meals at gov't expense, calculate cash charges, support routine administrative/inventory/financial functions of Troop Issue Subsistence Office. System will reduce potential for fraud, waste, and abuse in Army Food Program.					
ITEM	ARMY NATIONAL GUARD MANAGEMENT INFORMATION SYSTEM (ARING-MIS)					
FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	23838	23838	23838	23838	23834	23838
DESCRIPTION	Funds will provide for rental and maintenance of equipment used in a standard field system that supports manning, training, equipping, mobilizing, sustaining, and organizing the National Guard.					
ITEM	ARMY RECRUITING AND ACCESSION DATA SYSTEM (ARADS)					
FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2426	2441	2501	2501	2501	2501
DESCRIPTION	Provides a combination of hardware and software to satisfy functional requirements at USAREC headquarters, regions and districts. The primary link within ARADS will occur at the district headquarters.					

ITEM ARSENAL SYSTEMS-DARCOM

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
7062	10537	6594	6854	6708	5558

DESCRIPTION Provides local and unique and systems at 23 locations within DARCOM to support installation ADP not satisfied by standard systems.

ITEM AUTOMATED INSTRUCTIONAL MANAGEMENT SYSTEM (AIMS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
3779	3149	3149	3149	3149	3149

DESCRIPTION Software support and equipment rental for the Automated Instructional Mgt System. Supports an automated training support system that maintains student data, schedules training, predicts student graduation/ monitors student progress during training in a real-time mode, maintains course development status and reduces training cost.

ITEM AUTOMATED REENLISTMENT SYSTEM (RETAIN)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
10215	13320	13320	13320	13320	13320

DESCRIPTION Provides for commercially supplied ADPE time and system support maintenance for the Automated Reenlistment System that controls and manages the Army's reemlistment program.

ITEM AUTOSTRAD

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
12129	12749	23153	16393	11684	11645

DESCRIPTION Rental of equipment for the Automated System for Transportations Data which is a management information system supporting all functional activities within the Military Traffic Management Command.

ITEM BI-MEDICAL RESEARCH AND EVALUATION SYSTEM (BREDS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
1645	1585	1733	1701	1705	1220

DESCRIPTION Provide support to Walter Reed Army Institute of Research. Funds procurement of ADPE and purchase of software and oth equipment.

ITEM BMD SYSTEMS TECH PROG

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
9733	9713	10272	11104	11846	12823

DESCRIPTION Purchase of equipment and commerical services for operations, systems design analysis and equipment maintenance for the Ballistic Missile Defense Technology Program which is a research and development effort to advance ballistic missile defense systems state-of-the-art.

ITEM CATALOG DATA

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
1002	923	786	853	850	850

DESCRIPTION A data bank activity which keeps Army Supply Catalogs up to date. Provides funds for equipment rental, equipment maintenance and ADP training.

ITEM CENTRALIZED INTEGRATED SYSTEM INTERNATIONAL LOGISTICS (CIS-IL)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
3278	4409	1128	1128	1128	1128

DESCRIPTION CIS-IL is an integrated international logistics management system that encompasses all international logistics transactions including logistics and financial management. Funding will provide for the purchase, rental and maintenance of equipment.

ITEM COMBAT DEVELOPMENT (CD)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2211	2643	2643	2643	2643	2643

DESCRIPTION An intelligence gathering and intelligence simulation system. Funds provide for equipment rental, ADPE time, equipment maintenance, system design, analysis and programing and other ADP service and studies.

ITEM COMMODITY COMMAND STANDARD SYSTEM (CCSS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
44595	46439	42486	42532	42525	42531

DESCRIPTION

Provides for the purchase, rental and maintenance of equipment for the Commodity Command Standard System (CCSS) which supports a continually changing life cycle integrated commodity management environment including wholesale inventory management, stock and suppy control, maintenance support, planning, technical and engineering supervision.

ITEM

CORPS OF ENGINEERS MANAGEMENT INFO SYSTEM (COEMIS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2581	2175	2028	1758	2157	1869

DESCRIPTION

Limited purchase of new equipment, software, contractual time-sharing services and rental of equipment for the Corps of Engineer Management Information System, a standard system of the Engineer Divisions and Districts providing total integrated master files.

ITEM

COMP ARMY RES INST SYSTEM (COMPREHENSIVE ARMY RESEARCH INSTITUTE SYSTEMS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2219	1885	1885	1910	1910	1910

DESCRIPTION

Provides funds for ADPE to support research on a variety of projects generally relating to the hehavioral and social sciences. Equipment is used for statistical analysis, DBM, and financial control.

ITEM

COMPUTER ADAPTIVE TESTING (CAT)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
	1652	4387	4155	4155	4155

DESCRIPTION

CAT uses computer terminals to pose ASVAB questions to applicants and receive and process responses. The machine then selects the next question based upon the degree of difficulty required to provide the best producttion of an applicant's ability. Greater accuracy of test results and lower probability of test compromise is the result.

ITEM

COMPUTER-AIDED ENGINEERING AND ARCHITECTURE DESIGN SYSTEM (CAEADS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
1611	1219	937	895	946	731

DESCRIPTION Provide funds for hard and software for Corps of Engineers programs to automate engineering and architecture design functions related to construction.

ITEM COMPUTER ASSISTED PRACTICE OF CARDIOLOGY (CAPOC)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2240	1596	1799	1970	2216	2439

DESCRIPTION Funds equipment and software procurement, equipment maintenance and other ADP services, studies and programing.

ITEM CONSTRUCTION APPROPRIATIONS PROGRAMMING CONTROL AND EXECUTION SYSTEM (CAPCES)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1440	1440	1440	1440	1440	1440

DESCRIPTION Provides automated system to program control and account for military construction approiation funds by the Corps of Engineers.

ITEM CONTINENTAL ARMY MANAGEMENT INFORMATION SYSTEM (CAMIS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	9874	8225	25104	12745	12962	12757

DESCRIPTION Provides a user-friendly mobilization system of communication computers to support the planning, daily operations, mobilization execution, demobilization, and reconstruction functions through out the mobilization management structure.

ITEM CORPS OF ENGINEERS AUTOMATION PLAN (CEAP)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	348	942	26156	12192	3059	3000

DESCRIPTION Replaces CE-80 as the CE plan to replace/upgrade ADPE.

ITEM COMBINED ARMS AND SPECIAL TASK FORM (CAST FORM)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1271	1746	1746	1746	1746	1746

DESCRIPTION An evaluation model which provides force to force simulation of battalion level engagements. Provides funds for equipment rental, ADP operations, equipment maintenance, system design, analysis and programing and other contractual ADP services, studies and programing.

ITEM DA MOVEMENTS MGMT SYSTEM (DAMMS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1650	746	2161	2942	1684	1343

DESCRIPTION Provides management and control of DOD cargo in the theater transportation pipeline, manages theater transport assets, automates the theater wartime movements program. DAMMS comprises four modules: CARGO MOVEMENT, MANAGEMENT PLANNING, MODE MANAGEMENT MODULE, and PERFORMANCE MODULE.

ITEM DECENTRALIZED AUTOMATED SERVICE SUPPORT SYSTEM (DAS3)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	68510	69700	61920	59880	34876	11445

DESCRIPTION Purchase of new equipment for the Decentralized Automated Service Support System (DAS3), a hardware and software configuration capable of processing the functional software requirements of the Direct Support Unit Standard Supply System (DS4) at the logistic retail level of the Army and other field combat service support management information systems.

ITEM DIRECT SUPPORT UNIT STANDARD SUPPLY SYSTEM-DIVISIONAL (DS4-DIV)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	5479	6315	6315	6315	6315	6315

DESCRIPTION Provides for system design and software support for the DS4-div, an automated functional supply system designed for management of SUPPLY CLASS II, III, IV and IX at the direct support level.

ITEM FACILITIES ENGINEER SUPPLY SYSTEM (FESS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2958	2932	2922	2884	2884	2884

DESCRIPTION Provides system to maintain inventory of supplies for construction and/or other engineer activities. Also used to schedule periodic preventative maintenance and react to emergency maintenance requirements.

ITEM FORECAST: THE ARMY STRENGTH AND PERSONNEL MANAGEMENT ACTIONS FORECASTING SYSTEM

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	11200	10700	14500	12600	10900	10800

DESCRIPTION Provides a modeling system for forecasting virtually all personnel management actions, including accessions, reenlistments, training and education, reclassifications, promotions, assignments and voluntary and involuntary separations. Model officers, enlisted, active and reserve, and civilian strengths both in peacetime and mobilization.

ITEM HEADQUARTERS INTEGRATED OFFICE SYSTEM (HIOS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	4810	6464	13561	8306	4572	3860

DESCRIPTION Provides high speed, high capacity local area networks utilizing a shared communication medium in the Pentagon. HIOS will use the capabilities of these networks by integrating office systems of 17 agencies to create a horizontal and vertical information network.

ITEM HOSPITAL INFORMATION SYSTEM (HIS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1437	3815	1498	1764	1684	2073

DESCRIPTION Rental of equipment and commercially supplied ADP system analysis for the Hospital Information System, a system providing for the collection, communications and processing of hospital information. It will provide basic intra-hospital data base management and communications support to organize and provide access to a patient centered data base and to communicate among health care delivery and administrative support areas.

ITEM INTELLIGENCE DATA HANDLING SYSTEM (IDHS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	16933	16142	15935	15777	15479	15479

DESCRIPTION Provides for the purchase, system design analysis, and equipment maintenance for the Intelligence Data Handling System family of computers, plotters, and information handling equipment designed to produce useable intelligence through manipulation of raw data, storage, exchange, and dissemination of final product to users.

ITEM INFORMATION PROCESSING SYSTEM (IPS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
					3575	3575

DESCRIPTION Provides an automated system designed to provide efficiency and effectiveness for installation management. Functional capabilities include data management, records management, electronic filing, electronic mailing, on-line query and update, and text processing.

ITEM INSPECTOR GENERAL MANAGEMENT AND INFORMATION REPORTING SYSTEM (IGMIRS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2179	2114	2088	2087	2087	2087

DESCRIPTION Provides an automated communications network to IG activities worldwide. Will facilitate the standardization of IG policy and procedures, and allow the rapid dissemination of information and policies among all IG officers.

ITEM INTEGRATED FACILITIES SYSTEM (IFS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2787	2334	1968	1981	1975	1861

DESCRIPTION Provides a COE data base for Army Military Real Property. Contains physical descriptions, capacities, size, condition, etc. of the Army's real property inventory and provides a single source of information to support major commands and HQDA requirements. It also provides support for the PPBES cycle for real property maintenance activities.

ITEM INTERIM HOSPITAL LOGISTICS SYSTEM (IHLS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	5520	11144	6722	5957	4062	2800

DESCRIPTION Funds site construction, equipment rental, ADP training, equipment maintenance and other contractual ADP services, studies and programing.

ITEM INSTRUCTIONAL SUPPORT SYSTEM NETWORK (ISS NETWORK)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	987	982	1050	1128	1218	1321

DESCRIPTION Funding source of ADP support for cadet instuction at USMA. Funds software and other equipment acquisition, equipment maintenance and other ADP services, studies and programs.

ITEM JOINT OPTICAL INFORMATION NETWORK SYSTEM (JOINS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
9355	9355	3213	3207	3207	3207

DESCRIPTION Provides recruiters and guidance counsellors at the Military Entrance Processing Stations (MEPS) a microcomputer with communications capability that is linked to their commanding district's ARADS system. Incorporated into the system, as a peripheral device, is a video disk system used for portraying the many different Army opportunities.

ITEM JOINT UNIFORM MILITARY PAY SYSTEM-ARMY (JUMPS-ARMY)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
20570	4614	4614	4614	4614	4614

DESCRIPTION Funding provides for the rental and purchase of equipment and maintenance for JUMPS-ARMY (includes (JACS) centralized mili-pay and leave accounting system of the Army. The system provides input of pay changes and leave usage data on individual service members from the field or from central military personnel systems.

ITEM KMR ICC AND HDRF

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2840	2990	3140	3277	3427	3584

DESCRIPTION Costs for commercially provided ADPE system including system analysis for the Ballistic Missile Defense Kwajalein Missile Range Instrumentation Control Center and Honolulu Data Reduction Facility.

ITEM KUNIA

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2771	2870	2630	2630	2630	2630

DESCRIPTION Provides computer support to Intelligence Field Station, Kunia. Funds contractual ADP services, studies and programming. Also funds equipment rental and maintenance.

ITEM LOGISTICS INTELLIGENCE FILE (LIF)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	991	2342	2347	1898	1686	1686

DESCRIPTION Provides for the rental of equipment and commercially supplied services for the automated data base of the Logistics Control Activity which provides status to customers on their outstanding requisitions, as well as, management reports on the performance of the Army's material distribution system.

ITEM MULTI COMPUTER SYSTEM (MCS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2230	2230	2230	2230	2230	2230

DESCRIPTION Multi Computer System is a R&D system to test performance of soldiers and weapons during field maneuvers. Funds contract systems design, analysis and programming, equipment rental, ADP training, equipment maintenance and procurement of software.

ITEM MEPCOM/SELECTIVE SERVICE SYSTEM (SSS) JOINT COMPUTER CENTER

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	3149	3784	3784	3784	3784	3784

DESCRIPTION Provides for support to USA MEPCOM and the Selective Service System (SSS) MIS requirements to maintain the Selective Service data base; support consription requirements in event of mobilization; provides the mainframe data base for MEPRS; and provides receiving Armed Services with accession records by an on-line data transfer.

ITEM MILITARY ENTRANCE PROCESSING REPORTING SYSTEM (MEPRS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	3707	4549	4463	3615	3615	3615

DESCRIPTION Provides a distributive system of 73 mini-computers which communicate with a large mainframe host at HQ, US MEPCOM. Each Military Entrance Processing Station (MEPS) has a mini-computer which stores, processes, and transmits data on the attitudinal and physical evaluation of applicants for the Armed Services. The mini-computers also transmit data on accessions to the various services through the mainframe host.

ITEM MOBILE AREA FIELD INSTRUMENTATION SYSTEM (MAFIS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2301	2501	2501	2501	2501	2501

DESCRIPTION Provides real time information concerning unit organization and weapons effectiveness. Funds provide for procurement of new equipment and other ADP services, studies and programing.

ITEM NONAPPROPRIATED FUND INFORMATION STANDARD SYSTEM (NAFISS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2146	2721	2668	2692	2587	2604

DESCRIPTION Provides a DA standard system used by Central Accounting Offices to achieve control/reporting requirements for Army Nonappropriated Fund Instrumentalitier.

ITEM PERSONNEL DEPLOYMENT AND DISTRIBUTION MGMT SYSTEM (PERDDIMS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
6561	1566	338	251	250	250

DESCRIPTION Purchase of equipment, rental, and other commercial services to provide a centralized assignment system for enlisted personnel.

ITEM POST DEPLOYMENT SOFTWARE SUPPORT (PDSS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
7674	5959	6194	8437	8447	18428

DESCRIPTION Provides funds for eleven PDSS Centers providing assistance and modification of some 90 battlefield automation systems.

ITEM PROJECT 80X

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
11250	10200	10200	10200	10200	10200

DESCRIPTION Provides upgraded hard and software to support MILPERCEN, CIVPERCEN, and USAREC DPI'S. Purpose is to develope mobilization surge capability and sustain information needs.

ITEM REQUEST

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	23548	23548	23548	23548	23548	23548

DESCRIPTION Costs for commercially supplied ADPE time for the Recruit Quota System designed to support the Army's Accession Program with emphasis on recruiting requirements.

ITEM RETAIN (NOT AN ACRONYM)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	5281	5281	5281	5281	5281	5281

DESCRIPTION Provides an automated system to match prospective reinlisties with assignments, identify retraining required, reclassify personnel, and reserve training spaces or assignment vacancies for potential reinlisties.

ITEM SIDPERS

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	5417	4447	3179	2863	2716	2589

DESCRIPTION Costs for rental of equipment for the Standard Installation Division Personnel System, the Army's personnel accounting and management system at installation and division level.

ITEM SIDPERS 3

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	623	1744	3096	5977	18496	17655

DESCRIPTION SIDPERS 3 provides continuous basic wartime core and expendable peacetime modules for the active and reserve personnel information mgmt effort. Particularly critical in areas of force structure development and the regimental system.

ITEM SKILLS QUALIFICATION TESTING (SQT)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1226	1226	1226	1226	1226	1226

DESCRIPTION Supports TRADOC training requirements. Provides funds for equipment rental, systems design, analysis and programing, and ADP training.

ITEM STANDARD ARMY FINANCIAL SYSTEM REDESIGN (STANFINS-REDESIGN)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2545	3333	1557	1291	-0-	-0-

DESCRIPTION This GAO-approved system will use source data automation and interactive processing to replace obsolete, labor-intensive functions in Army accounting systems. Provides funds initiated in 1983 for programing, testing, and deployment to fiscal stations.

ITEM STANDARD ARMY INTERMEDIATE LEVEL SUPPLY SYSTEM EXPANDED (SAILS-ABX)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
12621	6630	6577	6516	6107	6038

DESCRIPTION Provides for the rental of equipment and commercially supplied equipment maintenance, ADP studies and system design analysis. SAILS-ABX is a worldwide multicommand standard supply system designed to operate at the intermediate support level. It operates supply, storage, and related financial management information systems for organizational equipment, packaged oils and lubricants, barrier materials, repair parts and medical stocks.

ITEM STANDARD ARMY RETAIL SUPPLY SYSTEM (SARSS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
1525	1765	2399	3095	2836	2841

DESCRIPTION Funds contractual system design, analysis and programing, ADP training and other ADP services and studies. Provides automated stock record accounting and supply management.

ITEM STANDARD CIVILIAN PERSONNEL MANAGEMENT INFORMATION SYSTEM (SCIPMIS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2718	1868	1807	2006	1866	1841

DESCRIPTION Provides support to personnel operations relevant to selected civilian personnel management functions, to include: accounting, statistical reporting, and automated preparation of mandatory documents.

ITEM TEAM UP

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	31555	36495	27229	29171	21004	23851

DESCRIPTION Purchase, rental, ADPE time, equipment maintenance and ADP service costs for the Test Evaluation, Analysis and Management Uniformity Plan. Typical applications are intergrated item accounting, Army Stock Fund, Civilian Pay, cost accounting, and appropriated fund accounting.

ITEM TECHNICAL SUPPORT

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1460	2538	2715	2629		

DESCRIPTION Costs for rental and commercially supplied ADP services for configuration management, quality assurance, inventory control, functional software evalution, engineering support, standard documentation, ADP utilization and research engineering.

ITEM TRADOC EDUCATIONAL DATA SYSTEM (TREDS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	1664	1670	1670	1670	1670	1670

DESCRIPTION Provides funds for equipment rental and equipment maintenance as well as for contractual system design, analysis and programing contractual ADP training and other ADP sercices and studies.

ITEM TRI-SERVICE MEDICAL INFORMATION SYSTEM (TRIMIS)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	9734	12532	23336	20623	20813	42518

DESCRIPTION An academic records system to support non-resident instruction systems at Ft Eustis. Provides Army portion of TRIMIS, a program which encompasses all ADP applications pertinent to health care delivery worldwide. TRIMIS functions include all medical areas plus management, and health care support.

ITEM UNIFORM CHART OF ACCOUNTS (UCA)

FUNDING	FY84	FY85	FY86	FY87	FY88	FY89
	2217	3516	2123	1759	1759	1759

DESCRIPTION Provides for fiscal accounting and reporting, specifically for medical related functional areas. Funds site construction and equipment maintenance.

ITEM VERTICAL INSTALLATION AUTOMATION BASELINE (VIABLE)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
85582	88243	92913	77393	70356	69492

DESCRIPTION Provides funds for fielding of ADP resources to 47 installations and 5 regional data centers. VIABLE provides a modern, interactive ADP capability at Army BASOPS installations using standard systems and installations-unique systems.

ITEM VFDMIS

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
2775	17945	21988	14826	9092	8566

DESCRIPTION Provides a secure, integrated automated force composition, manpower/equipment allocation, and budgetary management system, providing input from all levels for the Army's structure and allocation system.

ITEM WWMCCS INFORMATION SYSTEM (WIS)

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
18677	55416	69606	101695	130500	124902

DESCRIPTION Procures new equipment and funds other ADP services, analysis and programing. Funds modernization of eight WWMCCS ADP sites.

ITEM WWMCCS

FUNDING

FY84	FY85	FY86	FY87	FY88	FY89
15916	17370	20526	18932	18558	18397

DESCRIPTION Purchase and maintenance of equipment and ADP services for the Army segment of the World Wide Military Command and Control System (WWMCCS), an intergrated system for Army command control.

UNITED STATES MARINE CORPS

Major Information Technology Acquisition Plans
1983 - 1989
(In thousands of dollars)

Item: Replacement of IBM System 360 Computers and Peripheral Equipment.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	4059	0	0	0	0	0	0

Description: The Marine Corps has a DPA for computer and peripheral replacement at seven primary processing sites. This acquisition is planned over the FY80-83 timeframe. Sites included are: Central Design and Programming Activity, Washington, D.C.; Central Design and Programming Activity, Kansas City, MO; Central Design and Programming Activity, Albany, GA; Regional Automated Services Centers, Camp Pendleton, CA, Camp Lejeune, NC, Camp Butler, Okinawa and Camp Smith, Hawaii.

Item: Fleet Marine Force Mini-Computers.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	2761	0	0	0	0	0	30,000

Description: Provides for expansion of the battalion level mini-computer to the Reserve component, which will provide needed spares in the reserves for the regular establishment and allow the Marine Corps Reserve to use the same automated systems as the regular Marine Corps. This will enhance regular-reserve interface and thereby improve the ability of the Marine Corps Reserve to rapidly mobilize and carry out assigned missions in a national emergency. Replacement of all current ADPE-FMF equipment (regular and reserve) is planned for FY89.

Item: Standard Accounting, Budgeting, and reporting System (SABRS).

Funding:	FY83	FY84	FY85	FY86	FY87	FY88	FY89
(PMC)	1045	0	0	0	0	0	0
(O&MMC)	841	736	1218	615	615	615	615

Description: Will replace current major fiscal accounting systems (PRIME, MAGFARS) with an integrated, on-line data base management system design for more efficient processing.

Item: Mobile Automated Services Center Replacement.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	1961	0	0	12590	7900	0	0

Description: Will replace outdated "relocatable" Force Automated Services Centers equipment with truly deployable data processing equipment to support a deployed Marine Corps Air-Ground Task Force. FY83 funding will procure interim equipment prior to any large scale purchase scheduled for FY 1986.

Item: Automatic Data Processing Equipment for the Supporting Establishment.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	1164	8718	5950	0	0	0	0

Description: Will replace inefficient outdated data processing equipment at 23 sites with remote job entry equipment to allow input/output at remote sites with actual processing to be accomplished at seven major installations.

Item: Real Time Financial and Manpower Management Information System (REAL FAMMIS).

Funding:	FY83	FY84	FY85	FY86	FY87	FY88	FY89
(PMC)	282	10920	3967	7083	5861		
(O&MMC)	976	1101	1342	1792	1624	1289	1013

Description: REAL FAMMIS is a new automated information system in support of personnel accounting and pay within the Marine Corps. REAL FAMMIS terminals will be used to input pay and personnel transactions into a Marine Corps central data base at Kansas City, MO. Additionally, REAL FAMMIS will provide for storage of unit personnel records in magnetic media on distributed storage devices, and integrate up to 32 present systems and models into a unified entity.

Item: Logistics Management Information System (LIMIS).

Funding: (O&MMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	647	1726	1048	524	314	0	0

Description: Development costs in support of large scale redesign of the Logistics Management Information Systems. These systems control and publish Marine Corps Table of Equipment requirements and function as a data base for other automated systems.

Item: Marine Air-Ground Task Force List Requirements and Logistics Factors Model (MAGTF Lift Model).

Funding:	FY83	FY84	FY85	FY86	FY87	FY88	FY89
(PMC)	0	0	0	3859	0	0	0
(O&MMC)	165	750	2546	3454	5879	2239	3569

Description: The MAGTF Lift Model computes lift requirements for operation and contingency plans and studies, including logistics factors and resupply data. The new system will allow interactive update, query, and interface with the Joint Deployment System (JDS), Joint Operation Planning System Reports (JOPSREP), appropriate logistics manpower management, and command and control systems.

Item: Marine Corps Standard Supply System (M3S).

Funding: (O&MMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	4246	5477	10839	8340	10836	0	0

Description: M3S is being developed to provide the Marine Corps with a single supply system encompassing both retail and wholesale supply functions for FMF units and the supporting establishment.

Item: Capacity Upgrade Program.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	0	0	8430	1475	0	0	0

Description: Current projections show that the virtually simultaneous introduction of three major on-line automated information systems (REAL FAMMIS, SABRS, M3S) will create a severe Central Processing Unit (CPU) bottleneck by FY86. This program will provide upgraded CPU capacity at the seven major Marine Corps regional processing sites.

Item: Manpower Information Systems Support (MISS) and Precise Personnel Assignment System (PREPAS).

Funding: (O&MMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
MISS	640	804	806	852	905	941	968
PREPAS	957	1343	1269	1166	1135	1135	1103
Total Manpower Support	1597	2147	2075	2018	2040	2076	2071

Description: Provides for computer timesharing and program maintenance and development of advanced, sophisticated, computer based manpower management models that support the classification, entry level planning, staffing and assignment process for the enlisted and officer force of the Marine Corps.

Item: Obsolescent Equipment Replacement.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	2671	3304	6120	4688	2203	4320	2174

Description: Replacement and upgrade of secondary peripheral ADP equipment which is obsolete, difficult to maintain, or inefficient to operate.

Item: Lease Buyout.

Funding: (PMC)	FY83	FY84	FY85	FY86	FY87	FY88	FY89
	0	0	3200	3200	3200	3200	0

Description: Provides for the orderly buyout of current leased ADP equipment where economical and justified.

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DEPARTMENT OF THE NAVY

Major Information Technology Acquisition Plans 1984 - 1989 (In thousands of dollars)

Item: Department of the Navy Office Automation and Communications System (DONOACS)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	3,555	1,962	-	-	-

Description: Purchase of office automation test bed equipment for prototype testing and networking and purchase of minicomputer systems to bring in-house operations currently conducted by outside contract. The hardware will support the establishment of a standard, interchangeable office automation system and administrative communications network supporting Navy and Marine Corps Headquarters commands. (ADPS A11)

Item: ADPE Acquisition

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,537	8,898	33,992	3,781	3,000	3,000

Description: Hardware acquisition for the baseline and end-user requirements associated with the Navy Laboratory Technical Office Automation and Communication System (NALTOACS). (ADPS A12)

Item: WWMCCS System Software Contract (Planning Research Corp.)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2,509	2,629	2,898	3,058	3,229	3,229

Description: Software maintenance are enhancements for existing computer software packages in support of Navy communications, message output processor (MOP), CINCPAC, COMUSJAPAN, COMUSKOREA, and Joint Chiefs of Staff (JCS) WWMCCS System Support. (ADPS C20)

Item: Honeywell H6000 Hardware Leasing and Maintenance

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,030	1,070	1,173	1,236	1,300	1,300

Description: Rental and maintenance costs associated with operation of WWMCCS CNO computing facility. (ADPS C20)

Item: Prime Turnkey Contract

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
NIF	7,301	12,222	4,656	2,126	1,996	2,093

Description: The prime "turnkey" contract for hardware/software development of STAFS, including hardware/software maintenance services for the operation of STAFS. (ADPS F12)

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Item: Independent Verification and Validation (IV&V) Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,716	1,645	947	-	-	-

Description: Independent verification validation for review and technical analysis of all products and methods used in support of STAFS development. (ADPS F12)

Item: Lease of Hardware

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,742	7,776	11,682	8,691	8,608	6,117

Description: Financial Information Processing Centers ADPE Configurations. (ADPS F22)

Item: ADP Studies

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
991	2,386	780	464	-	-

Description: Contractor assistance in developing telecommunications and functional descriptions, and in conducting training. (ADPS F22)

Item: ADP Programming, Design and Analysis

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,882	4,204	4,242	4,433	4,630	4,839

Description: Required for development of the Integrated Disbursing and Accounting Financial Information Processing Systems. (ADPS F22)

Item: Operations

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
310	1,665	3,552	6,565	7,591	9,293

Description: Contractor operation of government owned ADPE at Navy Financial Information Processing Centers. (ADPS F22)

Item: Site Preparation

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,686	1,995	696	394	-	-

Description: Costs associated with the implementation of 14 Integrated Disbursing and Accounting Financial Information Processing Centers: five in FY 1984, six FY 1985, two in FY 1986 and one FY 1987. (ADPS F22)

Item: ADP Systems Analysis and Programming

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	828	3,284	4,360	4,555	4,762

Description: Development of new accounting policies and procedures requires the development of related ADP functional descriptions, data requirements, and system specifications. (ADPS F23)

Item: Programming and Implementation

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
69	1,059	1,111	2,191	503	-

Description: Contractor support for program design, testing, training and implementation. (ADPS F24)

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Item: Procurement of Navy Standard Civilian Payroll System (NAVSCIPS) ADPE

Funding:

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
OPN	-	1,657	8,081	-	-	-
O&MN	-	225	861	955	998	1,043

Description: Purchase and maintenance costs associated with procurement of new NAVSCIPS ADPE. (ADPS F24)

Item: NMPC Computer Center Equipment Upgrade

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,216	5,646	2,441	1,140	579	605

Description: ADPE leased rental and maintenance to permit upgrading, standardizing, and converting application systems. (ADPS F31)

Item: Consolidated Data Center Leased ADPE

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,754	8,737	414	449	483	482

Description: ADPE leased rental and maintenance to initiate the migration of the NFC and the NMPC to the Consolidated Data Center. (ADPS F31)

Item: Consolidated Data Center Purchased ADPE

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	24,928	3,351	-	-

Description: ADPE purchases (lease to purchase) by the Consolidated Data Center to implement the planned consolidation. (ADPS F31)

Item: Consolidated Data Center Purchased ADPE Maintenance

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	1,607	2,424	2,813	4,228

Description: Maintenance on the ADPE systems purchased by the Consolidated Data Center. (ADPS F31)

Item: Increased HON Processor Capacity

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,242	1,656	828	-	-	-

Description: Funds are for the augmentation of the HON Processor at the Naval Shipyards. This augmentation is required to support the additional MM modules as well as the running of the installed MM (DMI) module during 2nd and 3rd work shifts. FY 1984 reflects 9 months lease; FY 1985 - 12 months; and FY 1986 - 6 months. (ADPS L36)

Item: ADPE Replacement

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	15,600	17,960	21,240	23,600

Description: Funds are for the HON 6060 replacement (lease) at all Naval Shipyards. (ADPS L36)

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Item: Competitive Replacement of ICP Data Center Hardware

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	10,891	16,300	19,504	21,343	23,200	24,518

Description: Rental and maintenance costs associated with the acquisition of new ICP Data Center equipment. (ADPS L54)

Item: Data Entry Contract

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	860	1,023	1,075	1,126	1,176	1,228

Description: Commercial vendors used for data entry functions in lieu of in-house personnel. (ADPS L54)

Item: ADPE Time

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	2,100	1,050	1,050	1,050	1,050

Description: These funds will provide exterior back-up computer systems for the ICP's. (ADPS L54)

Item: On-Line AUTODIN

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	1,766	1,744	-	-	-

Description: Procurement of equipment to replace current On-Line AUTODIN (OLA). OLA is an automated system that provides Navy stock points and inventory control points with on-line access to the AUTODIN network. (ADPS L54)

Item: Purchase of ADPE

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	1,620	-	-	-	-

Description: Purchase of computer and terminals to support Enhanced Mobilization Readiness. This equipment will provide automated supply processing capability for command post exercises, assessing readiness measures and developing corrective strategies. (ADPS L54)

Item: Purchase of ADPE

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	5,058	4,915	6,118	6,584	6,280

Description: Purchase of equipment to support Logistics Applications of Automated Marking and Reading Symbols (LOGMARS). LOGMARS provides ships and stock points the capability to read bar-coded information for entry into existing computer systems. (ADPS L58, X51, X52)

Item: Automated Marking and Reading Equipment Maintenance

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	100	800	1,000	1,100	1,300	1,500

Description: Maintenance costs associated with the AMR equipment installed at stock points recompeted at least every other year. (ADPS L58)

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Item: Programming Contract

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	-	-	1,849	7,722	8,062

Description: Contractor programming of modernized UADPS applications programs. (ADPS L58)

Item: UADPS-SP Maintenance Contract

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	2,142	4,477	4,799	4,880	5,094

Description: Contractor maintenance of the current UADPS-SP applications and environmental programs to free FMSO personnel to develop the revised UADPS-SP system. Contractor maintenance of converted UADPS-SP. (ADPS L58)

Item: Competitive Procurement for Lease of Replacement ADP Equipment

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	-	-	1,307	2,607	6,242

Description: Lease of replacement ADPE. (ADPS L58)

Item: Stock Point ADPE Replacement

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	5,145	6,832	4,816	5,924	6,210	6,519

Description: Replacement of currently installed peripheral equipment at the stock points. Equipment includes terminals, line printers, disk systems, tape systems and remote equipment. (ADPS L58)

Item: Purchase of ADPE

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	9,158	9,963	6,035	2,466	1,980	2,071

Description: Purchase Stock Point Logistics Integrated Communications Environment (SPLICE) equipment. (ADPS L59)

Item: Printing Resources Management Information System (PRMIS) 1/

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	4,400	6,355	671	671	671	671

Description: These funds are to cover the costs associated with the acquisition of a turnkey hardware/software system. The configuration will support distributed processing at various NPPS locations worldwide. Initial acquisition (FY 1984) will provide for minicomputers and associated software at the four NPPS field divisions and at the Management Office (NPPSMO). FY 1985 funds will provide for installation of hardware and software at various NPPS offices and branch offices. The final hardware configuration will be based upon proposal received as part of the competitive procurement process. (ADPS L72)

Item: TSAM Life Cycle Test Bed ADPE Replacement

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	2,770	98	102	122	147

Description: Planned replacement of the Life Cycle Test Bed Computer System at SPCC. (ADPS L94)

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Item: Terminals Acquisition

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	511	7,648	4,716	-	-	-

Description: Terminal configurations purchased competitively to support NACMIS II/NCPDS and to replace sole source leased NACMIS I Datapoint and Xerox terminals. (ADPS P20)

Item: Contractor Support for Sites Installation of NACMIS II/NCPDS

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	350	1,900	-	-	-	-

Description: Contractor support for site installation through FY 1986 and to provide hardware, software, and technical trouble shooting to more than 150 civilian personnel offices. (ADPS P20)

Item: Computer Science Corporation - Timesharing Services - Teleprocessing Services

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	4,875	3,751	2,540	1,540	200	-

Description: CSC's Infonet serves as the telecommunications media to interface with CSC's host UNIVAC 1180 mainframe to provide DON CPO's on-line update/retrieval of civilian personnel data. (ADPS P20)

Item: Department of Energy - Operations

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,066	1,643	1,154	1,863	980	980

Description: Contract operators to man and service the central site of four B-2930's. (ADPS P20)

Item: Value Added Network - Telecommunications

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,000	2,160	3,800	3,800	3,800	3,800

Description: The Value Added Network services as the telecommunication media to interface with the B-2900 mainframes at the central site facility and the CPO's in the field. (ADPS P20)

Item: Datapoint Terminal Rental-Leased Intelligent Terminals

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,923	1,346	909	92	-	-

Description: Terminals provide interface with host computer to provide DON CPO on-line/retrieval of civilian personnel information. Terminal lease to be replaced by competitively purchased equipment in FY 1984. (ADPS P20)

Item: Telecommunications Services

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	160	742	1,762	2,731	4,380	4,940

Description: SDS two-way telecommunications requirement for a worldwide network linking CONUS and overseas PSAs/PSDs through regional minicomputers at NARDAC's/NAVDAF processing centers with Pay and Personnel Headquarters computers at NFC Cleveland and NMPC Washington, D.C. (ADPS P35)

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Item: Purchase of New ADPE and Support Costs Associated with Hardware Procurement

Funding:

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
OPN	3,349	14,157	12,279	3,540	3,415	1,000
O&MN	303	1,345	3,603	4,504	4,615	4,628

Description: Hardware acquisition contract OPN costs for minicomputers, terminals, and printers which support the Navy's Pay and Personnel Administrative Support System (PASS) network of 25 PSAs and 154 PSDs. O&MN support costs associated with the ADPE procurement. (Software support; manual update; hardware maintenance and vendor technical support). (ADPS P35)

Item: Programmer/Analyst Services

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,363	5,867	4,891	4,891	275	275

Description: Application software development and testing; implementation support. FY 1985 reflects turnover period when current contractor is replaced by competitive successor and begins transition from design/development to operation/maintenance of SDS. (ADPS P35)

Item: Training

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
296	1,193	1,367	1,404	-	-

Description: Indoctrination training support for implementation of SDS throughout the PASS network. (ADPS P35)

Item: ADPE Time

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,409	4,805	4,236	4,220	4,410	4,608

Description: These costs represent the teleprocessing services required to support Navy's recruiting program by providing enlisted school seat reservations and officer recruit tracking. (ADPS P51)

Item: Central Computing Facility, NIISA, Memphis

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,420	3,762	3,762	3,762	3,762	3,762

Description: Rental and maintenance costs associated with the Honeywell and National Computer Systems (NCS) hardware at NIISA Memphis and Detachments. (ADPS P70)

Item: GSA Contract - ADP Services

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,854	2,855	2,855	2,855	2,855	2,855

Description: Contract personnel are used in ADP Programming, Systems Analysis, Data Entry, Computer Operations, and typing of technical publications. (ADPS P70)

Item: Systems Analysis and Programming

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,331	1,355	1,221	1,438	1,397	1,509

Description: These funds are for contractor support to sustain the implementation of NIMMS in the NARFs and to initiate the supporting maintenance of the redesign system at the six NARFs. (ADPS V22)

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Item: Systems Analysis and Programming

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,995	5,604	4,449	4,337	4,398	4;398

Description: These funds are essential for the overall ADP redesign of the subsystems in support of the NAPFs. They represent the minimum contract support required to assume timely implementation of established, approved redesign milestones. (ADPS V30)

Item: Purchase of ADPE

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
14,158	24,633	34,894	36,044	37,086	38,895

Description: FY 1984 - FY 1989 OPN funding supports the ADPE requirements of the Naval Aviation Logistics Command MIS (NALCOMIS). (ADPS V60)

Item: Shipboard Non-Tactical ADP Program (SNAP) I ADPE Acquisition

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
12,424	30,246	1,618	1,097	-	-

Description: Acquisition of Honeywell DPS 6 equipment which will replace the obsolete AN/UYK-5 equipment aboard the larger ships of the Navy. The acquisition also includes upgrades over and above the old system which will give the users an on-line interactive system vice a batch oriented one. (ADPS X51)

Item: Shipboard Non-Tactical ADP Program (SNAP) II ADPE Acquisition

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
9,640	10,053	41,467	29,680	18,909	8

Description: Acquisition of Harris H300 Computer System to give automated support to smaller ships of the Navy which previously have had none. (ADPS X52)

Item: Puchase of ADPE

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,511	2,169	1,348	3,855	4,228	4,843

Description: Funding for the purchase of ADPE for the Navy Metrology Automated System for Uniform Recall and Reporting (MEASURE) system. (ADPS X81)

Item: Purchase of ADPE

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	9,629	3,401	3,490	3,575	4,149

Description: Funding for the purchase of ADPE for the Aviation Training Support System (ATSS). (ADPS X82)

Item: DPSCWEST UNIVAC 1100/63 Computer and Associated Equipment

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,475	1,565	1,575	1,732	1,905	2,095

Description: These funds are for continued lease of ADP equipment (Sperry-UNIVAC 1100/63 configuration) under the NAVDAC/MARDAC contract. DPSCWEST established by COMNAVDAC ltr 10-175/1043 of 11 March 1980. (ADPS 001)

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Item: Lease-to-Purchase Conversion

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	4,652	-	-	-	-

Description: FY 1985 funding for the lease-to-purchase conversion of ADPE for the Naval Aviation Logistics Data Analysis (NALDA) system. (ADPS 001)

Item: DPSCWEST Teleprocessing Hardware and Software Support

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,336	2,453	2,575	2,704	2,839	2,981

Description: This acquisition covers continued contract support with Inter Systems, Incorporated (ISI) for teleprocessing support to DPSCWEST and its users. It includes ADP studies for telecommunication support to the UNIVAC 1100/63 computer center. (ADPS 001)

Item: DPSCWEST Computer Center Facilities Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,652	1,664	1,764	1,864	1,924	1,984

Description: This item covers the contractor operation of the computer center. The facilities management contract was awarded to Systems Development Corporation (SDC). The operation of telecommunication equipment located in the same room is done by ISI. (ADPS 001)

Item: Configuration and Data Management Support System (CADMSS)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,254	1,379	1,516	1,667	1,733	1,996

Description: The CADMSS is an operational system which provides the Naval establishment supporting conventional weapons with a standardized automated data base. The system is maintained jointly by field activities via remote terminals. The system is currently in operation on an IBM 3033 at Optimum Systems Division of Electronic Data Systems, Rockville, Maryland. (ADPS 001)

Item: Airborne Weapons Corrective Action Program (AWCAP)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,241	2,295	1,803	1,652	1,822	2,004

Description: The AWCAP system is an operational program which records, tracks and responds to formal unsatisfactory reports (deficiencies) submitted by Fleet personnel on airborne weapon and target systems. (ADPS 001)

Item: Lease and Maintenance of Honeywell DPS/66 Computer

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,393	2,460	2,460	2,460	-	-

Description: This system provides computer support for scientists and engineers in their support of Fleet requirements and computer specialists in the development and processing of information systems for Center management. The system was installed in April 1980 as an interim system. An unsuccessful attempt was made to replace the Honeywell DPS/66 in the fourth quarter of FY 1983. A second replacement is underway, and is planned to result in a replacement system at the beginning of FY 1987. Meanwhile, the Honeywell DPS/66 must be enhanced to be able to provide the required support. The DPS/66 will be released at the end of FY 1987. (ADPS 001)

Item: Office Automation

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,504	1,504	560	256	256	-

Description: Funds to support execution of NAVSEA's Office Automation Implementation Plan. Emphasis is on providing managerial tools resulting in 20 percent increase in productivity. PECI funds provide for the lease and maintenance of OA Systems for SEA 01, 02 and 05. (ADPS 002)

Item: Supply Operations Assistance Program (SOAP) Integrated Logistic Overhauls (ILO)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,000	1,000	1,000	-	-	-

Description: This is a program directed by OPNAV/NAVMAT for NAVSEA development and implementation of an ILO System. The preliminary study and investigative cost for definition of and recommendation for this ILO System began in FY 1982. The results of this study are the basis for the preliminary LCM documentation required for the ADP involved. The above cost projections are for the programming and analysis effort required to support this program. (ADPS 002)

Item: Teleprocessing Services Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,625	2,667	2,642	2,730	2,827	2,934

Description: Teleprocessing (TSP) services contract in support of the PERA requirements to manage overhaul and repair of active fleet ships. (ADPS 002)

Item: Retrieval System

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,900	3,860	3,860	3,860	3,860	3,860

Description: Naval Engineering Digitized Drawing Storage and Retrieval System at NSY Portsmouth in support of ship drawing. (ADPS 002)

Item: Shipyard Alteration Management Information System (SAMIS)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	4,580	-	-	-	-

Description: Conversion of leased equipment to purchase to support SAMIS. (ADPS 002)

Item: Computer Aided Design/Computer Aided Manufacturing (CAD/CAM)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
500	1,000	500	-	-	-

Description: Procurement of a system for scientific and engineering use in: Engineering and Structural Analysis, Computer Aided Design, Computer Aided Manufacturing, Process Control Board Design, and Finite Element Modeling. (ADPS 002)

Item: WANG VS-100 Computer Systems

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	1,525	-	-	-	-

Description: Planned procurement of 2 WANG VS-100 or W-200 computer systems to support Planning Requirements and Information System Management (PRISM) for the Planning Department at the Charleston Naval Shipyard. (ADPS 002)

Item: NCCS Software Facility

Funding:

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	-	1,653	3,035	8,208	18,309	-
MILCON	-	-	10,392	-	-	-

Description: Contracts will be awarded to construct, equip, operate, and maintain the NCCS software support facility. (ADPS 003)

Item: NCCS

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
8,700	12,242	17,951	14,877	12,390	17,400

Description: TRW won (December 1982) a competitive contract to develop and maintain a single ashore correlation and dissemination focal point in each operating theater. (ADPS 003)

Item: Technical Support Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,173	6,210	9,528	10,790	11,590	10,500

Description: Competitive contract awarded to VITRO to provide technical support in configuration management and NCCS data base definition and facility. (ADPS 003)

Item: Project Support

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,335	1,375	1,300	1,250	1,250	1,250

Description: Project Support - Competitive contract awarded to VITRO to provide technical support in configuration management and NCCS data base definition and facility development. (ADPS 003)

Item: NCCS Ashore Correlation Upgrade

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,100	1,300	1,350	1,550	1,650	200

Description: TRW won (December 1982) a competitive contract to develop and maintain a single ashore correlation and dissemination focal point in each opeating theater. (ADPS 003)

Item: NCCS Ashore Software Support

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,320	3,960	4,050	3,790	3,605	595

Description: PRC won competitive procurement for software systems support to Computer Line Interface (CLI), Navy WWMCCS Standard Software (NWSS), NAVEUR Data Base Management System at CINCUSNAVEUR, OSIS Communication Processor Hawaii (OCPH), OSIS Baseline Subsystem (OBS); and the support of the Integrated Information Display System was added in FY 1982. (ADPS 003)

Item: Contract Services for Development of CAIMS Application Programs

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,200	1,400	3,540	1,640	540	340

Description: Services required to complete development of CAIMS EXCOM priority projects and resystemization of CAIMS applications to operate on new ADPE being acquired under the NAVSUP ICP Resolicitation Project. (ADPS 003)

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Item: Automation of Procurement and Accounting Data (APADE)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	1,050	-	-	-	-

Description: The objective of APADE is to provide the four Naval Regional Contracting Centers with an automated procurement system to ease intensive clerical tasks which support the contracting process. (ADPS 004)

Item: CDC Replacement System

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	900	3,600	4,000	5,000	5,000

Description: Rental and maintenance costs associated with the replacement of 14 year old computer facility. (ADPS 006)

Item: CYBER 750/MSS

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,400	2,400	2,400	-	-	-

Description: Rental of Mass Store System used for storage for all Center central computers. (ADPS 006)

Item: Data Processing and Related Services Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
4,389	4,627	4,839	4,878	4,954	5,033

Description: Provides system analysis, software programming, data reduction, data processing, data analysis, data documentation, and related services to NWC. (ADPS 006)

Item: UNIVAC 1100/80

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
4,931	5,838	5,721	5,808	5,923	6,022

Description: Lease and maintenance contract for UNIVAC 1100/80 System. (ADPS 006)

Item: Lease, Purchase and Maintenance of Central Computer Equipment and Optional Equipment

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
6,693	7,230	-	-	-	-

Description: On-going contract for lease and purchase of Central Computer System equipment. This contract ends on 30 July 1985. (ADPS 006)

Item: Lease, Purchase and Maintenance of Front End Processor

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,604	700	2,000	400	400	-

Description: On-going contract for lease and purchase of front end processor. The contract continues through 1989. (ADPS 006)

Item: Vector Computer

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	4,100	4,100	4,100	4,100

Description: This contract is a result of a projected need for an array processing center in FY 1986. (ADPS 006)

Item: Maintenance on Owned Equipment

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	500	2,100	2,200	2,300	2,400

Description: Contract for owned equipment to begin in FY 1985. (ADPS 006)

Item: Replacement Systems

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	-	4,000	500	500

Description: Purchase and lease costs associated with the procurement or replacement mainframe for the Central Computer System. (ADPS 006)

Item: Contractual Support for General Purpose Computer Center.

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,892	3,026	3,305	3,336	3,369	3,505

Description: New contract being negotiated for the above to continue current support. (ADPS 006)

Item: Computer Operations

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
770	1,297	1,363	1,432	1,506	1,580

Description: Annual contract renewals through GSA for computer operation services. (Third shift operations will need to be staffed commencing in FY 1985.) (ADPS 006)

Item: NUSC Distributed Computer Network

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,492	5,647	5,900	4,574	3,023	1,997

Description: Annual rental and maintenance costs associated with procurement of computer network. (ADPS 006)

Item: Computer Aided Engineering and Documentation System (CAEDOS) Contract

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
6,554	2,225	2,530	2,500	2,470	2,560

Description: All CAEDOS requirements will be purchased from options on the existing CAEDOS contract. The CAEDOS contract was a fully competitive contract which was signed in September 1981 to provide computer aided design/computer aided manufacturing for the Navy. (ADPS 006)

Item: Replacement of Central Computing Facility

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
5,087	8,930	8,940	5,729	4,859	4,334

Description: This complex of general purpose computing systems totally replaces the existing NSWC central facility (CDC CYBER 170-720, and CDC 6700 systems) and has a projected life of 10 years. It will provide the Center with a major upgrade to the current inadequate facility and provides both batch and interactive computational service for any of the Center's R&D programs. (ADPS 006)

Item: Local Area Network Terminal and Computer Interface Equipment

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,507	1,600	850	600	600	-

Description: NSWC is now installing, and will continue to install for the next few years, a broadband mid-split data communications system that will provide high-speed interactive communications between thousands of Center personnel and computer

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mainframes as well as with each other. The equipment consists of: T-Boxes to connect individual terminals to the network, T-Mixes to connect the computer mainframes to the network, T-Vecters to provide the headend transmission facilities, T-Bridges which allow multiple interchannel links and T-Links which provide interconnectivity between independent coaxial subsystems. (ADPS 006)

Item: Rental and Maintenance of CDC CYBER 070/760 and 6700 Peripherals (GSA)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,435	1,468	1,371	-	-	-

Description: These systems represent two of the three current general purpose systems planned for replacement. This rental and maintenance is required for the interim period while the replacement system is being procured, installed, accepted, and made fully operational.(ADPS 006)

Item: CYBER 176

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
2,400	2,400	2,400	-	-	-

Description: Rental and maintenance associated with interim central computing facilities. (ADPS 006)

Item: Standard Medical Supply System

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	1,951	1,501	1,607	-

Description: This system will provide local management and control in the areas of inventory management, order history automatic re-order, and catalog updates. This system supports the Navy mission by providing responsive support in ensuring timely availability of medical and surgical supplies and equipment for health care delivery of Naval personnel. (ADPS 008)

Item: Naval Aviation Logistics Command Management Information System (NALCOMIS)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	600	1,864	1,290	1,066	895

Description: NALCOMIS hardware will be purchased and installed for the Host, Supply, AIMD, OMD and 17 squadrons. Implementation will be in phases starting in FY 1984 through FY 1987. Maintenance and initial acquisition costs will be funded by the NAVAIRSYSCOMHQ. The cost of supplies, maintenance and site construction must be funded by receiving activity or TYCOM. (ADPS 009)

Item: ADSTAP Contract - Systems Analysis and Programming

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
800	850	900	900	900	900

Description: This contract supports the advancement strength and planning (ADSTAP) software system. This requires the contractor to perform development, operation, maintenance functions on multiple AIS's which project enlisted losses, determine manpower operating schedules, and manning distributions. This is achieved through the following programs: Enlisted Loss Projections, Enlisted Operating Plans, Enlisted Inventory Goals, Officer Operating Plans, Reserve Operating Plans, and Enlisted/Officer Distributions. (ADPS 011)

Item: Systems Analysis and Programming

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
882	934	870	870	870	870

Description: Systems Analysis and Programming to support Navy Officer Modeling Systems, Training Programming System and Structured Accession Planning System. The contractor will support these systems in designing, developing, implementing, testing and documenting new ADP system software. (ADPS 011)

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Item: Competitive Replacement of Recruiting Data System

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	1,075	-	-	-	-

Description: Resources provide for the procurement of an upgrade to the current IBM 4331 mainframe computer, 60 microcomputers, and peripheral equipment (e.g., communications controller, display stations, printers, etc.) to enable establishment of an on-line ADP capability for field and headquarters managers. (ADPS 011)

Item: Minicomputer Replacements/Minicomputer Purchases

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	-	2,600	4,015	6,505	6,312

Description: These funds are required to replace government owned INTERDATA 7/32s that are becoming obsolete and will not be supported after 1985 by their manufacturer. The current minicomputer network permits on-line access to officer and enlisted personnel records and satisfies user requirements for non-mainframe processing for numerous personnel sub-systems. (ADPS 011)

Item: Distribution Systems Competitive Procurement

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	3,600	1,500	-	-	-

Description: Purchase of minicomputers for the distribution systems (i.e., Officer Assignment Information System, Enlisted Assignment Information System and Distributed Management Support System). (ADPS 011)

Item: RADMIS Mainframe Computer and Associated Costs

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
1,230	1,248	395	378	1,559	422

Description: Costs include purchase of additional hardware/software to expand RADMIS system capabilities, maintenance of all associated equipment, contractor support, and telecommunications, and a major ADP system upgrade scheduled in FY 1988. (ADPS 015)

Item: Replacement of Central Computer Facility

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	3,000	3,300	3,300	3,300	3,000

Description: Replacement of TI-ASC (rental & maintenance). Exact requirement, dates, etc., still under study. (ADPS 015)

Item: NEDN Oceanographic Data Distribution and Expansion Systems/Satellite Processing and Display Systems (NODDES/SPADS)

Funding:

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	1,878	1,039	507	633	668	696
OPN	-	2,150	350	50	50	50

Description: Five NODDES/SPADS systems are planned to be installed at major oceanography centers in Pearl Harbor which supports the Eastern Pacific, in Norfolk which supports the Atlantic Ocean, in Guam which supports the Western Pacific and Indian Ocean areas, in Rota which supports the Mediterranean Sea area and in Suitland which supports the Polar regions. Additional units are planned for Monterey for software development and in FY 1986 at Bay St. Louis. Each NODDES system will be used to receive, process, and distribute oceanographic and meteorological data. Specifically the NODDES equipment will allow FLENUMOCEANCEN to transmit band index (gridded) data over the Naval Environmental Data Network (NEDN) or the Defense Data Network to the appropriate regional center. The system would then convert gridded data to graphics (a time consuming function presently performed on the

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FLENUMOCEANCEN large mainframe computers), execute applications programs to meet oceanography center unique product requirements, and store and forward processed information to support Command Facilities/Detachments as well as Fleet Command Centers, ASW Operations Centers and operational Fleet Commands. The SPADS sytems will satisfy the requirement for real time, local receipt and high resolution display of satellite data in order to more accurately locate certain environmental conditions in specific operational areas, e.g., fronts and eddies that can influence underwater acoustics. The concept of a limited regional data processing capability along with local receipt, analysis and display of direct readout satellite data for the oceanography centers was approved by CNO in December 1980. An Automated Information System (AIS) plan was developed, and ADP approval was obtained in February 1982. (ADPS 016)

Item: Primary Environmental Processing System Replacement (PEPSR)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	1,975	3,561	4,222	3,105	500	500
OPN	192	-	248	3,439	1,514	650

Description: The Primary Environmental Processing System (PEPS) consists of three CDC 6500 computers and associated peripherals. The mainframe components were installed in 1967, 1969 and 1976. The requirement to replace PEPS is based on: (1) difficulty in maintaining the hardware due to age and obsolescence, (2) increased work load due to larger and more sophisticated models, and (3) need to correct ADP security deficiencies. With the full operational capability of the PEPSU system, the PEPS machines pre-process and post-process the global model data generated on the PEPSU. The PEPSR will continue to tailor the output products for particular geographic area and applications. Other functions include: prediction of environmental effects on weapons systems and operations, optimum path aircraft routing, optimum track ship routing and maintenance of environmental climatology. An Automated Information System (AIS) plan was developed and ADP approval was obtained in March 1983. (ADPS 016)

Item: Primary Environmental Processing System Upgrade (PEPSU)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	1,455	465	512	563	619	640
OPN	4,250	-	-	-	-	-

Description: The PEPSU Computer System consists of a CDC CYBER 205 vector processor and associated peripherals. The PEPSU system, installed initially in December 1980, enables Fleet Numerical Oceanography Center to take advantage of more complex and environmental physical models to provide greater spatial detail of environmental predictions on a global scale, to fully use increased environmental data received from remote sensors such as satellites, and to increase the accuracy of environmental predictions at greater temporal scales. Purchase conversion of the competitively acquired PEPSU system is programmed for FY 1984. A more detailed discussion of this system is contained in the approved PEPSU ADS plan. (ADPS 016)

Item: Consolidated Communications System (CCS) Replacement

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	-	-	-	-	-	500
OPN	-	-	-	-	-	5,200

Description: The Consolidated Communications System Replacement is planned to be acquired in FY 1989. This system replaces the current Control Data System which was acquired under a contract awarded in 1979. The Consolidation Communications System is the termination point for medium and low speed (i.e., less than 56 KBPS) dedicated circuits at FLENUMOCEANCEN such as the Naval Environmental Data Network, the Automated Weather Network, the Air Force Global Weather Central data line and the National Meteorological Center data line. (ADPS 016)

Item: PEPS Software System (PSS)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,000	1,000	1,000	2,420	2,662	2,779

Description: The PEPS Software System (PSS) is a comprehensive concept designed to cover the majority of software development actions related to FLENUMOCEANCEN environmental support. The software development and implementation is operationally run on the

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Primary Environmental Processing System (PEPS) hardware, currently three Control Data 6500 systems. The PSS software development effort is directed toward providing the Navy with three capabilities: (a) expeditious processing and analysis of meteorological/oceanographic data to describe the total naval operating environment, (b) prediction of meteorological and oceanographic conditions to accuracies required by weapons/sensor systems, and (c) preparation, dissemination and display of platform and weapons system/sensor performance prediction based upon forecast environmental conditions. The PSS consists of seven subsystems covering: (1) system control and monitor, (2) report processing, (3) atmospheric analysis and prediction, (4) oceanographic analysis and prediction, (5) preparation, transmission and display, (6) data base management, and (7) data receipt and distribution. A significant portion of the development effort is devoted to software to be utilized by major environmental prediction models such as the Navy Operational Global Atmospheric Prediction System (NOGAPS), the Global Spectral Ocean Wave Model (GSOWM), and the Thermodynamical Ocean Prediction System (TOPS). (ADPS 016)

Item: Satellite Processing Center (SPC) Upgrade

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	114	317	598	935	300	320
OPN	775	3,022	1,070	-	-	-

Description: The SPC located at FLENUMOCEANCEN is COMNAVOCEANCOM's primary environmental satellite processing facility. The main computer for the SPC (a CDC CYBER 170/175) was acquired in FY 1976. Planned increases in available satellite data (received both directly from environmental satellites and through the shared meteorological satellite data communications network), higher data transmission rates, and increases in resolution and types of remotely-sensed data will saturate the present main computer by FY 1984. Programmed funding will replace the SPC mainframe in FY 1986 - 1987. The SPC currently receives and processes DMSP and NIMBUS satellite data. Present requirements to initialize the TOPS oceanographic model require sea surface temperature (SST) to an accuracy only obtainable from the Advanced Very High Resolution Radiometer (AVHRR) on the advanced TIROS-N satellite. Additionally, FLENUMOCEANCEN models require upper air wind vectors derived from the world-wide five GOES systems. New capacity is needed to process GEOSAT satellite altimeter data from the Special Sensor Microwave Imager (SSM/I) and Scatterometer on DMSP and NPOSS satellites. (ADPS 016)

Item: PEPS Upgrade Computer Enhancements

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
OPN	-	-	-	1,600	2,400	-
O&MN	-	151	576	2,300	-	2,500

Description: The PEPS Upgrade main computer is a CDC CYBER 205, a high capacity vector processor. The architecture of this computer increases the speed of computations for large scale physical models by allowing for vector streams of data to be operated on in what are termed computational "pipelines." The size of physical models which can be processed in a timely fashion are primarily limited by the number of computational "pipelines" and the capacity of the computer's memory. Anticipated refinement of physical models will require finer spatial resolution in both horizontal "grids" and vertical "layers" in the atmosphere and ocean to improve the accuracy and temporal reliability of environmental predictions. Refined physical models are driven by the increasing amount of accurate, remotely-sensed data (primarily from satellites) which will become available over the coming years. The present PEPSU will reach full capacity in FY 1985. Funds are programmed to allow for the expansion of the PEPSU will reach full capacity in FY 1985. Funds are programmed to allow for the expansion of the PEPSU capability either by a hardware augmentation of the CYBER 205 or by the addition of a second vector system. (ADPS 016)

Item: NAVOCEANO Primary Processing Center CPU and Memory Replacement

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	1,520	875	373	411	468	552
OPN	-	4,227	-	-	-	-

Description: This equipment replaces UNIVAC 1108 central processors and central memory which were critical system bottlenecks on the primary processing computer system. The replacement equipment is UNIVAC 1100/80 series central processors and memories. The first increment of replacement hardware was installed in July 1982. The

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UNIVAC 1100 series systems provide data processing support to the full range of NAVOCEANO projects, i.e., gravity surveys, ocean measurement, bathymetric and coastal survey, etc. A Mission Element Need Statement was approved by CNO, and a System Decision Paper (SDP) was approved by the DUSN(FM) in May 1981. The FY 1984 investment funds will purchase one U1100/80 CP and one million words of central memory. The FY 1985 CAP funds will purchase two U1100/80 CPUs and two million words of central memory. (ADPS 016)

Item: NAVOCEANO Primary Processing Center Peripheral Upgrade

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	326	1,312	1,409	1,277	319	195
OPN	723	137	251	1,082	286	405

Description: The peripheral upgrade contract provides for an upgrade of ADPE peripherals on the UNIVAC 1100 series computer systems at NAVOCEANO. Specific peripherals included high speed line printers, a communications front end processor, disk subsystems and magnetic tape subsystems. An Automated Data System Plan was approved by the ASN(FM) in 1979. Equipment was installed under a lease with option to purchase plan in December 1980 based on a competitive contract award. Funding in FY 1985 will replace fifteen year old equipment, specifically drum storage and a communications controller. Additional disk storage will also be acquired. Funding beyond FY 1985 allows for continued lease along with replacement for current line printers, card readers, remote batch terminals and communications processor. Equipment will be acquired competitively under a lease with option to purchase plan. (ADPS 016)

Item: NAVOCEANO OCEANIS Expansion

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
O&MN	-	-	300	300	300	300
OPN	-	-	8,825	-	-	5,000

Description: A new computer system to accommodate the processing of compute bound scientific data processing tasks is programmed for FY 1986. This system, to be acquired competively, should handle the central site large scale ADP work load for numerical oceanographic modelling at the Naval Oceanographic Office (NAVOCEANO) and the Naval Ocean Research and Development Activity into the early FY 1990's. Resources will provide for computer system capability on which to execute high resolution numerical models of the world's oceans. Once operational, these models would resolve the locations of ocean fronts and eddy boundaries and currents. Accurate localizing of these features is necessary in order to define the horizontal variations in the Sound Velocity Profile (SVP). Accurate knowledge of SVP can be used strategically to conceal FBM submarines and tactically in ASW operations. This computer system capability will also allow for the maintenance of an oceanographic data base from which the Command and Control Center can interactively query the oceanographic parameters needed for quick response decisions regarding operations anywhere in the world oceans. An example might be a query which provides sea conditions and acoustic conditions in several ocean areas from which a decision can be made as to where to position a carrier task group to provide maximum probability of detection of submarine attack. Current data collection is accomplished by ships and aircraft which can only cover a small percentage of the world's oceans, and because of the cost of XBT sensors, small scale features cannot be resolved over any ocean basin. Data is now returned to NAVOCEANO and incorporated into products which are historical when they reach the Fleet. There is no interactive capability for Command and Control decision makers. The GEOSAT and NROSS satellites which will provide small scale data will be flown in FY 1986 and FY 1988 respectively. A Mission Element Need Statement was approved by CNO in December 1982. (ADPS 016)

Item: Automated Information System (AIS)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	3,225	3,808	3,808	3,808	3,808	3,808

Description: AIS envisions a distributed data processing capability utilizing a telecommunications network, central data base with probable distributed data bases, remote data input, retrieval and processing capability at all major decision points. AIS also envisions a singular information architecture which operates across MSC shore-based and shipboard units with all required external systems. (ADPS 017)

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Item: Strategic Sealift Contingency Planning System SEACOP/(STRATMOB)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	5,343	3,702	4,695	2,219	2,316

Description: Development of a subsystem to assist MSC contingency planning; a data base to support strategic mobility systems; and the execution subsystem of MSC Strategic Mobility System. SEACOP was designed to respond to the reporting requirements imposed on the Military Sealift Command (MSC) as specified in the JCS Joint Operations Planning System by producing OPLAN Sealift movement tables. The new STRATMOB will provide a more responsive and sophisticated model in that it will reflect the current state-of-the-art vice logic that is 10 years old. (ADPS 017)

Item: JDA No-Plan Prototype

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	2,336	1,925	817	826	836	846

Description: Development of information systems to interface with JDS community. (ADPS 017)

Item: Strategic Systems Project Office In-House Computer System

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	-	1,300	-	-	-	-

Description: Acquisition of a Resources Management Information System which will be an interactive user-oriented system and will give SSPO required support needed due to the recent merger of the TRIDENT Project Office (PM-2) with SSPO. (ADPS 018)

Item: Reserve Financial Management System (RESFMS)

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	220	3,390	3,620	3,860	4,110	4,370

Description: Funding provides minicomputers and terminals in support of Reserve Financial Management/Activity Duty for Training System (RESFMS). RESFMS is an integrated Reserve Personnel Navy (RPN) Accounting and Active Duty for Training Order Writing System that will provide CNAVRES the capability to effectively manage RPN Funds. (ADPS 020)

Item: DPI Equipment Transition

Funding:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	37,860	39,550	42,430	44,250	48,920	54,170

Description: This program provides near term expanded UNIVAC support for the remaining contract period 1982-1987 to allow the addition of new technology of state-of-the-art UNIVAC equipment (processors, memory, front-end processors). This program also provides in the long term for a total replacement of the UNIVAC configuration between 1985 and 1987.

Phase I of the Transition Project provided for replacement of the Control Processing units and the Communications processors acquired from Sperry Contract GS-00L-50218 with updated technology. Phase I is completed.

Phase II is the competitive replacement of the Sperry contract which expires in March of 1987. All of the equipment acquired from the Sperry contract must be replaced by the time the contract expires.

The costs do not reflect increased cost, but only the actual and estimated lease and maintenance costs for the existing Sperry contract and the replacement contract(s), respectively. (ADPS 021)

Item: Navy-Wide Network Interface

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
4,169	4,928	5,594	5,478	5,719	5,971

Description: This program provides lease of ADP and data communications hardware and software to establish connectivity on a regional basis to national and global DOD common user networks. These regional facilities provide the teleprocessing structure for sharing resources among multiple Navy commands. Navy systems including SNAP, and other Navy-wide mini and microcomputer contract equipments will be compatible with and able to use this support. A network between the NARDACs, now in place, is providing an interim capability until the necessary hardware can be procured. (ADPS 021)

Item: Type Commanders, Headquarters Automated Information System (THAIS)

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
3,053	3,224	3,406	3,600	3,758	3,924

Description: Provides funds to develop and implement 10 major modules of THAIS in each of the TYCOM HQs funds would provide for:

1. Development and operations costs of eight minicomputers systems with 18 micro-computer terminals per site.
2. Implementation costs and contractor operators.
3. Contract programmer/analysis to assist in developing the 10 major functional modules that make up the data base management system of THAIS.
4. Contract analysts to determine applicability for THAIS to Fleet CMDRS WTRS. (ADPS 021)

Item: Naval Bases/Stations

Funding:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	2,451	1,796	2,114	2,197	2,304

Description: This project coordinates functional requirements for Naval Bases and Naval Stations and initiates development of Navy-wide standard systems to meet those functional requirements. (ADPS 021)

OFFICE OF THE SECRETARY OF DEFENSE

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Medical Information Systems

Item: Automated Cardiac Catheterization Laboratory System

Obligations:	1984	1985	1986	1987	1988	1989
	119	3	18	-	-	-

Description: Retrofitting operating cardiac catheterization laboratories with Automatic Data Processing capability.

Item: Computer Assisted Practice of Cardiology

Obligations:	1984	1985	1986	1987	1988	1989
	4,768	701	85	71	63	67

Description: Provides computer assisted interpretation of electrocardiograms.

Item: Composite Health Care System

Obligations:	1984	1985	1986	1987	1988	1989
	-	10,093	9,305	14,217	27,816	31,995

Description: Development of a fully integrated set of automated health care applications.

Item: Computerized Medical Record Information System

Obligations:	1984	1985	1986	1987	1988	1989
	669	543	66	-	-	-

Description: Provides patient medical information portion of the Composite Health Care System to establish protocols in management of patient care.

Item: Food Service System

Obligations:	1984	1985	1986	1987	1988	1989
	[illegible]	[illegible]	[illegible]	3,149	3,315	3,497

Description: Development of a Tri-Service Food Service System to support major functions of Clinical Dietetics and Production/Service Management.

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Item: Hospital Information System

Obligations:

1984	1985	1986	1987	1988	1989
4,706	3,560	8,527	3,956	4,006	4,536

Description: Procurement of systems to provide comprehensive data communications and automated support for most functional hospital areas as well as some outlying clinics.

Item: Hypertension System

Obligations:

1984	1985	1986	1987	1988	1989
384	482	279	-	-	-

Description: Installation of automated information systems to provide more complete and efficient care to patients in the hypertension and diabetics mellitus.

Item: Laboratory System

Obligations:

1984	1985	1986	1987	1988	1989
6,675	3,604	3,500	2,579	1,099	232

Description: Provides for the acquisition, installation and maintenance of automated laboratory system capability at military medical treatment facilities.

Item: Logistics System

Obligations:

1984	1985	1986	1987	1988	1989
1,531	2,390	6,346	6,073	4,952	5,018

Description: Installation of automated information system to support health care logistics operations in military medical treatment facilities.

Item: Patient Administration System

Obligations:

1984	1985	1986	1987	1988	1989
4,657	4,527	1,811	773	-	-

Description: Installation of automated information systems to provide improved administrative support to patients and health care providers in both inpatient and outpatient environments.

Item: Patient Appointment and Scheduling System

Obligations:

1984	1985	1986	1987	1988	1989
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Description: Installation of automated systems to provide improved resource utilization, accuracy and time reduction in patient scheduling.

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Item: Pharmacy System

Obligations:	1984	1985	1986	1987	1988	1989
	2,359	644	1,645	1,204	350	10

Description: Installation of systems to provide automated data processing support for inpatient and outpatient pharmacies at Military Medical Treatment facilities.

Item: Radiology System

Obligations:	1984	1985	1986	1987	1988	1989
	3,361	5,007	2,554	215	18[illegible]	20[illegible]

Description: Installation of automated information system to provide support to radiology departments in diagnostic radiology reporting, file control, image and report management, and statistical reports.

Item: Small Composite Health Care Systems

Obligations:	1984	1985	1986	1987	1988	1989
	-	5,704	10,625	12,620	11,471	12,220

Description: Development of a fully integrated set of automated health care applications at small medical treatment facilities.

Defense Nuclear Agency

ITEM: Equipment and Services

OBLIGATIONS:	FY-1984	FY-1985	FY-1986	FY-1987	FY-1988	FY-1989
	8,589	9,178	7,809	7,493	10,001	7,557

DESCRIPTION: The obligations above are for equipment purchases, rental of equipment and commercial services. Purchases of equipment include enhancement of the Headquarters system hardware, autodin upgrade and terminal upgrade during the BY. DNA is presently renting a WWMCCS computer which will be purchased during BY+1.

Defense Contract Audit Agency

Item: DCAA Integrated Information System (DISS)

Obligations:	1983	1984	1985	1986	1987	1988	1989
	-	500	8,953	687	-	-	-

Description: DCAA plans to install an integrated information processing network supporting word processing and telecommunications for up to 170 field audit offices, six regional offices and the Agency Headquarters. The DIIS has been designed to reduce or eliminate time expended in the collection, retrieval, analysis, and dissemination of data needed to effectively accomplish the Agency's audit mission.

Defense Mapping Agency

Item: Scientific and Technical (S&T) Processing Computer Systems (DMA Phase II)

Obligations:	1984	1985	1986	1987	1988	1989
	13,769	15,642	17,548	18,142	18,419	18,768

Descriptions: None.

Item: Base Level Data Automation Program (AF Phase IV) Systems

Obligaions:	1984	1985	1986	1987	1988	1989
	940	1,403	3,900	687	312	312

Descritions: None.

Item: Computer Assisted Photo Interpretation Systems (CAPI)

Obligaions:	1984	1985	1896	1987	1988	1989
	8,767	4,476	5,498	232	244	256

Descritions: None.

Item: Cartographic Processing Systems (CPS)

Obligations:	1984	1985	1986	1987	1988	1989
	1,001	570	590	1,959	615	615

Descriptions: None.

Item: Stero Comparator (TA3/P) Systems

Obligations:	1984	1985	1986	1987	1988	1989
	7,176	1,349	1,551	150	150	150

Descriptions: None.

Item: Stero Plotter (AS-11) Systems

Obligations:	1984	1985	1986	1987	1988	1989
	4,502	260	510	165	165	165

Descriptions: None.

Item: Local Area Networks (LAN)

Obligations:	1984	1985	1986	1987	1988	1989
	846	820	370	183	183	148

Descriptions: None.

Item: Interactive Feature Analysis Support Systems (IFASS)

Obligations:	1984	1985	1986	1987	1988	1989
	553	114	126	138	152	164

Descriptions: None.

Item: Data Base System Integrator (DBSI)

Obligations:	1984	1985	1986	1987	1988	1989
	0	0	0	0	4,000	4,000

Descriptions: None.

Item: Pooled Analytical Stero Systems (PASS)

Obligations:	1984	1985	1986	1987	1988	1989
	2,956	168	168	171	171	171

Descriptions: None.

Item: Xerox 9700 Page Printing Systems

Obligations:	1984	1985	1986	1987	1988	1989
	332	332	340	337	337	338

Descriptions: None.

Item: Color Raster Scanner/Plotter/ with Edit Station System

Obligations:	1984	1985	1986	1987	1988	1989
	1,207	27	90	1,207	27	27

Descriptions: None.

Item: Integrated Photogrammetric Instrumentation Network (IPIN) System

Obligations:	1984	1985	1986	1987	1988	1989
	915	600	0	280	0	187

Descriptions: None.

Item: Eletron Beam Recorder (EBR)

Obligations:	1984	1985	1986	1987	1988	1989
	180	180	180	180	180	180

Descriptions: None.

Item: Automated Aeronautical Information Processing System (AAIPS)

Obligations:	1984	1985	1986	1987	1988	1989
	594	134	134	134	334	234

Descriptions: None.

Item: Weapon Support System (WSS)

Obligations:	1984	1985	1986	1987	1988	1989
	261	0	525	0	0	2,200

Descriptions: None.

Item: Scientific and Technical Computer Software Redesign (Phase II)

Obligations:	1984	1985	1986	1987	1988	1989
	1,331	1,200	1,500	1,500	0	0

Descriptions: None.

Item: Terrain Analysis Processing System (TAPS)

Obligations:	1984	1985	1986	1987	1988	1989
	0	300	400	350	300	350

Descriptions: None.

Item: Advanced Color Edit Raster System (ACERS)

Obligations:	1984	1985	1986	1987	1988	1989
	125	0	250	300	300	300

Descriptions: None.

Item: Advanced Cartographic Data Digitizing System (ACDDS

Obligations:	1984	1985	1986	1987	1988	1989
	377	380	171	117	106	102

Descriptions: None.

Item: Automated Feature Extraction System (Photogrammetic Digital Operations Plan) AFES(PDOP)

Obligations:	1984	1985	1986	1987	1988	1989
	250	300	300	300	300	300

Descriptions: None.

Item: Geodetic Data Application System (GDAS-II) Traster Steroplatter System

Obligations:	1984	1985	1986	1987	1988	1989
	1,249	55	55	105	225	175

Descriptions: None.

Item: Elevation Data Edit Terminals (EDET)

Obligations:	1984	1985	1986	1987	1988	1989
	0	1,257	0	0	0	0

Descriptions: None.

Item: Extracted Feature Rectification Processing System (ERAPS)

Obligations:	1984	1985	1986	1987	1988	1989
	899	986	937	133	133	118

Descriptions: None.

Item: Universal Automatic Map Compilation Equipment System (UNIMACE)

Obligations:	1984	1985	1986	1987	1988	1989
	153	495	590	282	282	282

Descriptions: None.

Item: Digital Image Processing System (DIPS)

Obligations:	1984	1985	1986	1987	1988	1989
	355	227	70	70	170	170

Descriptions: None.

Item: Terrain Edit System/Elevation Matrix Processing System (TES/EMPS)

Obligations:	1984	1985	1986	1987	1988	1989
	505	405	365	876	388	350

Descriptions: None.

Item: Automated Raster Cartographic System (ARCS)

Obligations:	1984	1985	1986	1987	1988	1989
	145	132	137	168	172	175

Descriptions: None.

Defense Investigative Service

Item: Industrial Security Operational Information System

Obligation:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	86	158	158	158	158	158

Description: Lease costs for equipment associated with ADP program planned for field industrial security program beginning in FY 84, with full years implementation in FY 85.

Defense Logistics Agency

Item: Defense Automatic Addressing System

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	-	4,047	4,760	4,098	992	992

Description: This will fund the replacement of the automatic data processing equipment supporting the Defense Automatic Addressing Office in an evolutionary change from the current configuration to the planned system architecture. Each phase will improve processing conditions and provide increased processing advantages.

Item: System Replacement - Defense Logistics Service Center.

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	11,552	5,641	11,341	11,341	1,191	3,691

Description: This item supports the interim and the competitive replacement of automatic data processing services supporting the Federal Cataloging System. The replacement is phased to permit a continuity of service while replacing the equipment to meet the final configuration needs.

Item: ADP Systems Europe and Pacific

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	-	3,234	-	-	-	-

Description: It is projected that by 1985 the need for ADP support for the DLA activities in Europe and the Pacific areas will dictate that DLA establish it's own ADP facilities rather than reply on support from the Services.

Item: Multi-Functional Terminals

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	-	9,493	-	-	-	-

Description: A contract award for terminals to support all DLA systems is expected in early FY84. These terminals will support all DLA AIS with on-line interactive requirements. The contract will be a requirements contract which requires that funds be obligated on each individual delivery order as they are issued. This funding requirement is to continue the purchase of terminals initiated in FY84. Lack of funding will cause curtailment and/or cancellation of mission essential AIS programs.

Item: Engineering Drawing Automated Storage and Retrieval Equipment (EDASRE)

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	-	3,550	-	-	-	-

Description: In keeping with the Secretary of Defense letter of 29 Aug 1983, the Agency has completed an assessment for improving spare parts acquisition associated with our

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technical data repository functions. The Agency goals established to accomplish these improvements are based upon proven technology and further enhancement of existing capabilities. Our planning objectives support the Secretary's goals for accelerating plans for acquisition of computer hardware and software to assist parts control personnel, and automating data repositories to improve the acquisition, storage, update, and retrieval of reprocurement and technical data.

Item: Minicomputer systems

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	21,725	-	-	-	-

Description: A single major procurement is being initiated to satisfy all projected requirements for minicomputer type systems throughout the Agency. The specifications, currently under development, will provide systems of varying size and capability to address the wide range of requirements. The cost of individual systems, including CPUs, peripherals, communications, terminals etc., is estimated to range from $300,000 to $1,200,000. These systems will support depot, supply center, and base operations. By conducting a combined procurement for these systems substantial savings can be realized by buying in quantity and by reducing the costs and impact of training and technical support required for multiple dissimilar systems.

Item: Uninterruptible Power Supply Units

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	2,025	-	-	-	-

Description: Reliable uninterrupted power supply units are required at the Defense Contract Administration Service Regions to reduce the possibility of lost processing time resulting from interruptions in commercial power. These are battery backup units that also protect against voltage impulses that can cause data to be altered and/or damage to equipment. The probability of losing large amounts of data and the subsequent loss of ADP capability by on-line users as a result of commercial power failures is negated.

Item: Disk Units

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	14,144	-	-	-	-

Description: Limits on existing computer room space will require that the newer technology, higher density disk drives be aquired to accommodate the expected expansion of on-line file storage requirements. The units will be needed to support all of the Agency's major automated information systems.

Item: Non-Impact Printers

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
-	3,200	-	-	-	-

Description: Additional non-impact printers are required to support increased printing workloads and to serve as backup to existing systems during peak workloads and equipment downtime. A survey of the activities has recently been completed, supporting the need for additional systems.

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Office of the Secretary of Defense

Defense Audiovisual Agency

Item: Defense Audiovisual Information System (DAVIS)

Obligations:	1984	1985	1986	1987	1988	1989
	216	300	315	331	348	366

Description: Maintenance and Expansion of the DAVIS to include the Still Photo Library System.

Item: Audiovisual Information Management System (AIMS)

Obligations:	1984	1985	1986	1987	1988	1989
	244	64	105	110	116	121

Description: Establishment of an Audiovisual Information Management System for the Agency.

Item:

Obligations:	1984	1985	1986	1987	1988	1989
	226	340	252	265	278	290

Description: Defense Data Network (DDN) costs incurred in support of the DAVIS and its customers.

UNITED STATES INFORMATION AGENCY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of Broadcasting

Item: Procurement of Voice of America Automated Aids

Obligations:	CY 1984	BY 1985	BY+1 1986	BY+2 1987	BY+3 1988	BY+4 1989
	9,336	1,528	1,528	1,528	1,528	1,528

Description: The Voice of America (VOA) is planning to acquire automated aids to support program production, broadcasting, engineering, management and other functions. The first part of this acquisition will be the System for News and Programming (SNAP), a means for expediting the creation, editing, and distribution of text in English and over forty other languages for VOA news and broadcast services. The second part of the acquisition will include an engineering computer capability. Future acquisitions are being planned so that all VOA functions will be supported by a coordinated system.

Office of Administration and Technology - ADP Systems

Item: Procurement of Text-Editing Facility

Obligations:	CY 1984	BY 1985	BY+1 1986	BY+2 1987	BY+3 1988	BY+4 1989
	665	660	644	621	588	569

Description: Rental (includes equipment and software), maintenance and supply costs associated with the procurement of P/P Text-Editing System.

Item: Procurement of Microcomputers from Competitively awarded RFP for USIA

Obligations:	CY 1984	BY 1985	BY+1 1986	BY+2 1987	BY+3 1988	BY+4 1989
	533	776	581	500	500	500

Description: Purchase, shipment, maintenance, software and supply costs associated with procurement of microcomputers for the purpose of receiving the Wireless File by direct dial and to have word processing capabilities for our smaller posts overseas.

Item: Procurement of Office Information Systems (OIS) from the Department of State Contract awarded to WANG

Obligations:	CY 1984	BY 1985	BY+1 1986	BY+2 1987	BY+3 1988	BY+4 1989
	1,358	1,291	1,416	1,236	850	200

Description: Purchase, shipment, maintenance and supply costs associated with procurement of WANG office information systems being implemented overseas.

AGENCY FOR INTERNATIONAL DEVELOPMENT

Major Information Technology Acquisition Plans
1984 - 1988
(In thousands of dollars)

ITEM: FINANCIAL ACCOUNTING AND CONTROL SYSTEM(FACS)

OBLIGATIONS:	1983	1984	1985	1986	1987	1988
	-	760	930	-	-	-

DESCRIPTION: The Agency's largest development activity continues to be the Financial Accounting and Control System. This will replace virtually all of the Agency's existing Washington-based financial systems. The effort was initiated in 1978 with most of the funding occurring between 1979 and 1981. The system is being developed in four phases and full implementation of the final phase is expected near the end of CY-1985.

ITEM: UPGRADING COMPUTER SERVICES

OBLIGATIONS:	1983	1984	1985	1986	1987	1988
	550	-	1,500	300	700	100

DESCRIPTION: The Agency's central computer was acquired competively in 1977 to meet A.I.D.'s computer needs for five years. The work load imposed by the new Financial Accounting and Control System, as well as a steady increase in demands for computer services, requires that A.I.D. augment its computer facility. Interim steps toward augmentation were begun in 1982. The longer term requirements are being addressed as part of the study that will determine the Agency's needs for automation support over the next five years. Therefore, the budgetary amounts are illustrative at this point.

ITEM: OVERSEAS MINI-COMPUTERS

OBLIGATIONS:	1983	1984	1985	1986	1987	1988
	800	500	500	250	250	250

DESCRIPTION: In accordance with an Agency decision to provide automation support to many of its offices overseas, a formal program was implemented to provide for the installation of mini-computers. Mini-computers were acquired for eight of the larger AID posts between 1979 and 1982, and compatible equipment was acquired for three posts in 1983.

A.I.D. plans to meet the continuing requirements for automation support to minimize the impact of increasing work load imposed on its offices overseas. During 1984 and 1985 the installation of mini-computers is anticipated for four additional offices overseas.

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OFFICE OF THE UNITED STATES TRADE REPRESENTATIVE

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Capital investment

	1984	1985	1986	1987	1988	1989
Obligations:	295	423	431	440	448	457

Description: Includes pruchase of hardware and software.

Item: Lease of equipment

	1984	1985	1986	1987	1988	1989
Obligations:	86	96	98	100	102	104

Description: Lease of printers and telecopiers.

Item: Commercial services

	1984	1985	1986	1987	1988	1989
Obligations:	580	656	669	682	696	710

Description: Includes ADPE time, leased telecommunications services, operations and maintenance programming, systems analysis and programming, systems design, engineering and studies.

Each year includes costs of the Harmonized Code System.

DEPARTMENT OF STATE

Major Information Technology Acquisition Plans
1984 - 1988
(In thousands of dollars)

Item: Financial Management System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
4,400	4,400	4,400	3,000	2,000

Description: The Disbursing Module has been programmed and three other modules have been designed.

Item: Distributed Computer Network

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
1,500	1,300	1,300	1,500	1,000

Description: Minicomputers have been installed at seven Foreign Service posts and USAID and USIA have installed similar equipment at twelve additional posts. Twenty additional installations are projected for FY 1984 and FY 1985.

Item: Travel Document Issuance System

Obligations:

FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
6,061	6,061	3,000	3,000	3,000

Description: The system is now producing machine-readable passports at the Passport Agencies in Washington, Chicago, Miami, San Francisco and Los Angeles. Installation at other agencies will continue through the next two years.

Item: Equipment Replacement

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
Washington	3,000	3,000	3,000	3,000	5,200
Regional Centers	1,000	1,100	2,200	1,500	1,200

Description: The Department has installed standard equipment in its Regional Administrative Management Centers (RAMC) in Paris and Bangkok, thereby reducing programming costs. It has replaced the IBM 370/158's in the Washington center with IBM 3083 computers. The equipment in RAMC Mexico will be replaced this year.

Item: Foreign Affairs Information System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
	1,500	500			

Description: The Department has issued a contract to study the impact of converting the existing system and to design a new system. The conversion to the new system will begin in FY 1985.

Item: Centralized American Payroll System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
	700				

Description: A contract has been awarded for the design and programming for the centralization of the payroll of Americans at Foreign Service posts. The system is expected to be operational in FY 1985.

Item: Foreign Service National Payroll System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988
	2,000	2,000	2,000		

Description: The Department will undertake the development of a single, integrated payroll system for Foreign Service National employees. The system development will begin in FY 1984. It will take three years to complete the conversion from the existing payroll systems.

DEPARTMENT OF COMMERCE

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

General Administration

Item: Replacement of Telephone Service

Obligations:	1984	1985	1986	1987	1988	1989
	--	3,700	--	--	--	--

Description: A private branch exchange (PBX) telephone switch will be acquired to replace the service currently provided by the Bell Atlantic Telephone Company for the Hoover Building.

Bureau of the Census

Item: "Bridge" computer system (Univac 1100/84)

Obligations:	1984	1985	1986	1987	1988	1989
	5,739	4,810	5,246	5,490	5,740	6,218

Description: This system is a recent replacement for obsolete hardware and provides short-term capacity necessary to ensure efficient and timely processing of work loads. Thus, it serves as a "bridge" resource pending future equipment acquisitions planned for the late 1980s. While FY 1985 and outyear estimates provide for the continued lease-to-ownership agreement and associated maintenance and software support, FY 1984 also includes the acquisition of two distributed communications processors.

Item: Printers (including remote batch terminals)

Obligations:	1984	1985	1986	1987	1988	1989
	530	575	168	176	184	300

Description: This component provides for the lease/purchase and maintenance expenses associated with all on-line and off-line printing subsystems. Continued costs related to laser page printers and seven remote batch terminal systems are included.

The remaining remote batch terminals, which are currently utilized as printer devices only, will undergo a phased program of replacement by numerous on-line, individual, high-speed printer units that will be located throughout the Bureau.

Item: Transition Support

Obligations:	1984	1985	1986	1987	1988	1989
	505	530	524	549	574	—

Description: This component is designed to provide a structured transition from present software systems to machine-independent software, and it also includes the acquisition of specialized user-assistance software packages. Specifically, it will assist in: (1) continuing the transition to standard programming languages and data sets; (2) moving new or redesigned applications to the "bridge" computer system; (3) effecting productivity enhancements (for both programmers and nonprogrammers) through the acquisition of more "user friendly" software tools and techniques, and associated training. Programs are expected to conform to Federal Information Processing Standards (FIPS) and will be as machine independent as present technology allows. Design reviews also should result in more efficient implementation methods that will minimize adverse effects on other users and provide improved computer resource utilization.

Item: Disk Subsystems

Obligations:	1984	1985	1986	1987	1988	1989
	3,463	75	66	69	72	90

Description: This component provides for a significant increase in the Bureau's available disk storage capacity. Continued maintenance expenses are also included. These units provide rapid and random access to individual segments of data and allow the manipulation and storage of large quantities of on-line data. This results in reduced tape handling (and the associated human errors), provides the environment necessary to promote interactive processing by nonprogrammers, and yields decreased turnaround times for the testing and utilization of computer programs.

Item: Mini-computers

Obligations:	1984	1985	1986	1987	1988	1989
	648	116	91	96	100	104

Description: This component provides for the acquisition of a mini-computer to be employed for interactive publications. This Interactive Publications Support System (IPSS) will replace existing outmoded equipment and modernize the labor-intensive methods currently necessary for producing Bureau publications. This estimate also includes continued IPSS-associated maintenance support, continued support for graphics terminal equipment previously acquired and, through FY 1984, maintenance expenses associated with the prototype system supporting computer-assisted telephone interviewing (CATI).

Item: Geographic Support System (GSS)

Obligations:	1984	1985	1986	1987	1988	1989
	4,037	496	1,690	18,480	4,861	4,410

Description: This component provides for the acquisition and related expenses for the digitizing equipment that will be used to encode both the metropolitan and nonmetropolitan areas of the country. Overall, it provides a geographic information system which includes: (1) a geographic referencing capability that documents the relationships of the areas represented in each census and survey, (2) a geographic assignment capability that permits the assignment of individual census or survey responses to the appropriate geographic area based on the address of the respondent, and (3) a cartographic product capability that automatically produces maps which are needed to support the 1990 Census of Population and Housing.

Item: Decennial Data Capture (DDC)

Obligations:	1984	1985	1986	1987	1988	1989
	600	675	470	492	1,057	44,279

Description: This activity provides for the development of a state-of-the-art method to support a more cost effective data collection methodology for the 1990 Decennial Census. The new system will provide a more effective data collection operation than in 1980 and will enable more timely closing of the temporary field offices.

Item: Distributed Communications Processors (DCP)

Obligations:	1984	1985	1986	1987	1988	1989
	—	1,070	52	55	57	120

Description: This component provides for the acquisition of two additional communications handlers that balance terminal communications among the mainframes. Additionally, these systems allow the automatic transfer to files between mainframes. This process will eliminate the labor-intensive activity associated with manual tranfers.

Item: Interactive Terminals (including replacements)

Obligations:	1984	1985	1986	1987	1988	1989
	647	681	567	192	201	812

Description: This component provides for the acquisition of additional interactive terminals. These devices are an integral component of the Bureau's overall program for enhancing the productivity of programmers and nonprogrammers. They provide the tools and techniques necessary for both program development and the automation of existing manual procedures. Coupled with "user friendly" software, increased on-line data storage, and effective training, this program will provide the environment necessary to increase productivity.

Item: Field Automation

Obligations:	1984	1985	1986	1987	1988	1989
	1,666	2,043	714	748	782	818

Description: This component provides for the continued automation of many labor-intensive functions currently performed in the regional offices. In addition to providing a general office automation capability, this phased program will provide the necessary ADP resources to allow automation in areas such as CATI and administrative functions, such as, budget, payroll, and personnel. This request covers the acquisition of 14 systems (including one compatible system for Headquarters and one for the Jeffersonville facility) and for all associated maintenance and support expenses.

Item: Computer Replacement (including the Univac 1100/83 upgrade)

Obligations:	1984	1985	1986	1987	1988	1989
	1,849	—	3,997	15,993	6,340	7,989

Description: This activity is designed to meet two major objectives: first, to ensure that the Bureau remains abreast of state-of-the-art computer technology in order to provide sufficient capacity and performance levels to accommodate increasing workload requirements and second, to improve the capability of the Univac 1100/83 as a viable backup to the 1100/84 in the near term.

In the first instance, the Bureau plans to initiate a fully competitive replacement of the mainframes and major associated peripherals in the 1986 and beyond timeframe, thereby ensuring that state-of-the-art technology will be in place for the processing of the 1990 Decennial and 1992 Agriculture and Economic Censuses.

As for the imminent 1100/83 Upgrade, the result will be a system fully compatible (in terms of both hardware and software) with the 1100/84. The system will serve as a total backup in case the 1100/84 becomes inoperable for any extended period. In addition, these enhancements will afford improved operating performance on the 1100/83.

Bureau of Economics Analysis

Item: Competitive Replacement of Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	----	----	----	4,000	500	500

Department of Commerce

Description: Purchase, maintenance, and site preparation costs associated with the procurement of a replacement computer system.

National Technical Information Service

Item: Electronic Demand Printing

Obligations:	1984	1985	1986	1987	1988	1989
	0	570	2,000	3,300	3,500	3,700

Description: NTIS anticipates a phased-in Electronic Demand Printing service beginning in late 1985 or early ~~1986~~.

Item: ADP Services

Obligations:	1984	1985	1986	1987	1988	1989
	1,500	1,650	1,775	1,955	2,151	2,366

Description: Centralized ADP services acquired through the Department of Commerce's Computer Center.

International Trade Administration

Item: Automated Information Transfer System (AITS)

Obligations:	1984	1985	1986	1987	1988	1989
	3,000	1,500	1,500	1,500	1,500	1,500

Description: Continued development and implementation of AITS, providing access to Trade development related information resources to ITA District Offices and foreign posts of the Commercial Services, and communications to each other.

Item: Export Administration and Enforcement Support System

Obligations:	1984	1985	1986	1987	1988	1989
	2,300	3,870	4,247	4,339	4,421	4,472

Description: Design and development of an integrated system to provide information technology support for ITA's export licensing and enforcement responsibilities.

Patent and Trademark Office

Item: Workstations and User Services

Obligations:	1984	1985	1986	1987	1988	1989
	1,000	2,966	9,964	17,916	27,319	28,510

Description: Provide electronic terminals, supporting computers, and software to perform automated office functions.

Item: Text and Image Capture

Obligations:	1984	1985	1986	1987	1988	1989
	1,300	7,600	7,600	7,700	1,000	1,000

Description: Lease of optical character recognition (OCR), key entry, micrographic, and image digitizing equipment.

Item: Data Base Processing

Obligations:	1984	1985	1986	1987	1988	1989
	1,600	3,500	7,000	9,700	12,900	13,000

Description: Special purpose search software, development of software to interface text storage system with network, load images to permit searching.

Item: Engineering/Systems Integration

Obligations:	1984	1985	1986	1987	1988	1989
	1,900	1,940	1,955	1,955	1,455	--

Description: System component specifications to acquire equipment and software for automated systems, component testing, and system integration.

Item: Network and Process Control

Obligations:	1984	1985	1986	1987	1988	1989
	400	1,400	1,600	1,600	1,700	2,100

Description: Hardware and software to manage data, flow between computer subsystems, and provide diagnostic information for enhanced network efficiency.

Item: Patent/Trademark Printing

Obligations:	1984	1985	1986	1987	1988	1989
	10,509	10,390	10,390	10,390	10,390	10,390

Description: Data base entry for assembled patent issues in proper format to generate a magnetic tape, as well as Trademark registration.

Item: Management Services

Obligations:	1984	1985	1986	1987	1988	1989
	1,100	5,250	5,650	6,050	6,450	6,850

Description: Hardware and software to support management planning, coordination, and control; site preparation and installation.

Item: Word Processing

Obligations:	1984	1985	1986	1987	1988	1989
	1,213	1,213	1,213	1,213	1,213	1,213

Description: Lease to ownership of equipment for Office-wide WP support.

Item: Documentation/Teleprocessing/On-Line Searching/Customer Services

Obligations:	1984	1985	1986	1987	1988	1989
	2,614	1,933	1,933	1,933	1,933	1,933

Description: To provide ADP support for Documentation organizations (Services will be performed in-house after expiration of contractor 1986). To provide library services consisting of non-patent literature access to commercial data bases. Increase for microfilming patent files (current and backfile in Customer Service).

Item: Patent Depository Libraries (PDL)

Obligations:	1984	1985	1986	1987	1988	1989
	449	449	449	449	449	449

Description: ADP support of automated effort to expand the use of PDL's and provide improved accessibility to patent information.

Item: Administrative Support

Obligations:	1984	1985	1986	1987	1988	1989
	153	153	153	153	153	153

Description: Keypunching and contractual support for the Office of Finance and the Office of Patent and Trademark Service.

National Bureau of Standards

Item: Central Computing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	4,593	18,580	1,704	2,213	2,402	2,737

Description: Purchase, rental, and maintenance costs associated with procurement of new central computing facility.

Department of Commerce

Item: Telephone System

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,500	500	500	500	500

Description: Purchase and rental costs associated with procurement of the new telephone system.

Environmental Research Laboratories

Item: Acquisition and operation of Labortory Computers.

Obligations:	1984	1985	1986	1987	1988	1989
	2,459	1,350	1,350	1,350	1,350	1,350

Description: Purchase, rental, and maintenance costs associated with procurement laboratory data reduction computers.

Item: Costs on conversion to NBS/ERL Scientific Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	-0-	2,000	-0-	-0-	-0-	-0-

Description: Special (one-year) costs associated with the conersion of programs currently on a CDC-750 to formats compatible with a combined NBS/ERL Scientific (vector-processing, Class VI) Computing System.

Item: Telecommunications costs

Obligations:	1984	1985	1986	1987	1988	1989
	-0-	624	768	839	931	1,161

Description: Acquisition (FY 1985) and maintenance costs associated with telecommunications systems to link individual laboratory data reduction computers to the centralized NBS/ERL Scientific Computing System.

National Ocean Survey

Item: Commercially obtained computer services

Obligations:	1984	1985	1986	1987	1988	1989
	1,600	1,230	1,000	-0-	-0-	-0-

Description: Completion of North American Datum readjustment or the National Geodetic Survey.

Item: National Geodetic Survey Division Computer Support System

Obligations:	1984	1985	1986	1987	1988	1989
	526	930	1,110	810	480	415

Description: Modernize the data processing operations and provide effective computer support for the NGSD 10 year scientific program.

Item: Graphic data manipulation system

Obligations:	1984	1985	1986	1987	1988	1989
	730	201	925	416	372	260

Description: Modernize and automate the cartographic compilation of aeronautical charts for the Aeronautical Charting Division.

Item: Computer system for the collection, storage, compilation and graphic display of charting data. (ANCS)

Obligations:	1984	1985	1986	1987	1988	1989
	1,731	1,761	1,400	950	770	810

Description: Modernization, replacement, maintenance and operations of the automated charting system.

Department of Commerce

Item: Small computer systems and real time data interfaces. (SDS-III)

Obligations:

1984	1985	1986	1987	1988	1989
3,900	1,100	1,200	1,300	1,400	1,100

Description: Modernization and replacement of shipboard hydrographic data acquisition systems for the nautical charting.

Item: Computer systems for photogrammetric data processing.

Obligations:

1984	1985	1986	1987	1988	1989
1,294	155	566	500	500	500

Description: Modernization and maintenance of photogrammetric operations.

National Weather Service

Item: NWS Automation of Field Operations and Services (AFOS) Program.

Obligations:

1984	1985	1986	1987	1988	1989
4,250	1,775	1,350	1,500	1,500	-0-

Description: System improvement design, purchase, documentation, and telecommunications costs associated with upgrading the AFOS (Automation of Field Operations and Services) System.

Item: National Meteorological Center's Information Technology Systems Requirements.

Obligations:

1984	1985	1986	1987	1988	1989
1,251	1,165	1,500	920	1,090	1,110

Description: Purchase, rental, and commercial services costs associated with the National Meteorological Center's Systems enhancements, technology upgrades, and operational maintenance.

Item: ADP/Telecommunication Resources for the River and Flood Forecast and Warning Program.

Obligations:

1984	1985	1986	1987	1988	1989
1,145	1,222	960	989	3,763	3,458

Description: Purchase, maintenance, and programming costs associated with the Upgrade and System Support to the River Forecast Centers' computers.

Item: NOAA Data Buoy Center's (NDBC) Information Technology Sysems Requirements.

Obligations:

1984	1985	1986	1987	1988	1989
979	1,042	1,221	1,056	1,095	1,136

Description: Purchase, rentals, commercial services costs associated with the NOAA Data Buoy Center's system enhancements, and operations for environmental data processing.

Item: Upgrade and Restoring Observations Basic to the NWS Forecast Mission.

Obligations:

1984	1985	1986	1987	1988	1989
321	912	2,000	2,650	2,500	2,000

Description: Purchase, lease, and telecommunications costs associated with interfacing various data collection points to the Automation of Field Operations and Services System; and purchase costs associated with technology upgrades at various upper air observational sites.

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DEPARTMENT OF JUSTICE

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Drug Enforcement Administration

Item: Office Automation	1984	1985	1986	1987	1988	1989
Obligations:	5,389	5,620	5,552	5,552	5,552	5,552

Description: Office Automation technology will provide DEA with the capabilities for word processing, record processing, message processing, electronic filing and automation of many office activities. Office functions will be performed more cost effectively and efficiently.

Item: DEAAFP	1984	1985	1986	1987	1988	1989
Obligations:	352	322	280	280	280	280

Description: Provides DEA, through EPIC, with the capabilities of full text retrospective search and retrieval and automated real-time message handling.

Item: Narcotics and Dangerous Drugs Information System (NADDIS)	1984	1985	1986	1987	1988	1989
Obligations:	2,525	2,259	2,259	2,259	2,259	2,259

Description: The major enforcement support system for DEA. This data base maintains records on persons, businesses, ships, aircraft and certain airfields, it is the centralized index of all DEA investigative reports.

Item: PATHFINDER	1984	1985	1986	1987	1988	1989
Obligations:	1,411	2,281	2,091	1,635	1,635	1,635

Description: This Data Base Management System (DBMS) provides DEA with centralized automated storage, retrieval and analysis of law enforcement intelligence information relevant to illicit drug activities.

Item: Controlled Substances Act (CSA) System	1984	1985	1986	1987	1988	1989
Obligations:	1,065	450	450	450	450	450

Description: Used to control the registration and annual re-registration of more than one half million legitimate sources of federally controlled drugs.

Department of Justice

	1984	1985	1986	1987	1988	1989
Item: DEA Radio						
Obligations:	7,177	9,882	8,909	8,909	8,909	8,909
Description:	The Drug Enforcement Administration's (DEA) radio system provides a useful and immediately responsive UHF radio communications service in support of DEA law enforcement operations.					
Item: Secure Teletypewriter System						
Obligations:	643	643	643	643	643	643
Description:	Lease and purchase costs related to the system located in Headquarters, domestic, and foreign offices that allows the exchange of message traffic in a secure environment.					
Item: DATS						
Obligations:	1,783	1,783	1,783	1,783	1,783	1,783
Description:	Charges related to leasing services for operation of equipment that provides on-line access to DEA's law enforcement and support data bases.					
Item: Automated Reports of Consummated Orders System (ARCOS)/Drug Analysis Detector System (DADS)						
Obligations:	547	1,963	1,225	833	833	833
Description:	Processes drug activity reports from manufacturers, distributors, importers and exporters who are authorized to handle controlled substances. The reports are detailed transactions for any sales, purchases, loss or theft of drugs from point of manufacture or import to point of distribution or export.					
Item: DEAAS						
Obligations:	423	356	296	152	152	152
Description:	DEA Accounting System (DEAAS), handles and reports all financial transactions and obligations. Requires software modifications.					
Item: Administrative Support						
Obligations:	236	153	620	339	339	339
Description:	Rewrite of programs to accommodate many new requirements of reporting systems for DEA Field Divisions and Headquarters elements.					

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Item: RMS

	1984	1985	1986	1987	1988	1989
Obligations	7,140	4,715	5,222	3,064	3,166	3,268

Description: System development efforts continue for an integrated RMS. RMS terminal clusters to support field offices not supported by the FOIMS Northeast Regional Computer Center will be procured and installed in 1984. A host processor computer system will be acquired in 1984 to support noninvestigative FBIHQ information processing activities. The data base that is required to integrate RMS functions will be completed in 1985. Other plans for 1985 include terminals to support RMS in the field offices and terminals to support the FBI's Training Division.

Item: ISS

	1984	1985	1986	1987	1988	1989
Obligations	8,377	9,286	7,851	9,021	7,139	7,364

Description: Intelligent tempest certified terminals will be purchased in 1983, 1984, and 1985. In 1984 the operating system software will be upgraded and additional secondary storage will be acquired. Development of the Computer Assisted Analytics Support System (CAASS) will be completed in 1984. CAASS will be provided to the field offices over a five-year time period, beginning with ten field offices in 1985.

Item: AIDS (ADPT)

	1984	1985	1986	1987	1988	1989
Obligations	2,781	3,016	2,940	2,940	3,042	3,042

Description: In 1984 the host processor will require upgrading as a result of file growth and increased user response. Additional secondary storage will be required in 1984 and 1985.

Item: AIDS (Fingerprint Identification)

	1984	1985	1986	1987	1988	1989
Obligations	36,359	5,381	2,452	2,452	2,452	2,452

Description: The AIDS III implementation contract will be awarded in 1984 with delivery expected to begin in 1986. The contract will include a four CPU system for all of AIDS and replacement of data entry equipment.

Item: ARMS

	1984	1985	1986	1987	1988	1989
Obligations	1,701	1,472	1,252	1,252	1,221	1,221

Description: Due to the increasing requirement for storage of paper files and the existing constraints on available floor space, a micromation/feasibility study to support ARMS is required in 1984. Additional secondary storage will be required in 1985.

Item: NCIC

	1984	1985	1986	1987	1988	1989
Obligations	5,835	5,940	4,551	4,022	4,022	4,022

Description: In 1984, an upgrade of the host processor is necessary to support implementation of the Interstate Identification Index (III) workload. Additionally, funding is required in 1984 to support a functional analysis of the criminal justice information services community. After completion of the functional analysis, a redesign leading to a new systems life cycle of NCIC will be required in 1985.

Item: FOIMS

	1984	1985	1986	1987	1988	1989
Obligations	20,991	49,043	63,000	48,400	42,800	39,500

Description: Construction of the Northeast Regional Computer Support Center (NERCSC) will continue in 1984. The field offices in the Northeast Region and the eight remaining top 12 field offices will receive some FOIMS support. Design of the Western Regional Computer Support Center (WRCSC) will be completed. In 1985, the NERCSC will be completed and all data and word processing needs in the Northeast Region will be satisfied. The WRCSC will be constructed and FOIMS will be fully implemented in the Western Region. Full FOIMS support will be provided to the remaining eight top 12 field offices.

Item: Communications

	1984	1985	1986	1987	1988	1989
Obligations	17,007	25,025	32,732	39,408	45,149	56,498

Description: Funding will allow for the development and installation of the Computer Applications Communications Network (CACN), Secure Automated Message Network (SAMN), and Headquarters Local Area Network (HQLAN). It also provides for additional secure telephone units and for the significant increases in telephone costs.

Item: FM Radio

	1984	1985	1986	1987	1988	1989
Obligations	63,600	31,904	6,000	6,000	6,000	6,000

Description: Replacement of the FBI's entire FM Radio system was begun in 1982. This effort will continue through 1985.

Immigration and Naturalization Service

	1984	1985	1986	1987	1988	1989
Item: Equipment Acquisition						
Obligations:	6,954	5,971	4,945	5,735	3,823	3,823

Description: Costs represent obligations for capital investments for ADPE, software, systems maintenance, and site preparation; and commercial services for systems analysis and programing.

Item: Nonimmigrant Information System

	1984	1985	1986	1987	1988	1989
Obligations:	3,525	3,525	3,525	3,525	3,525	3,525

Description: Costs represent obligations for commercial services in operating and maintaining the Nonimmigrant Information System.

Item: Master Index

	1984	1985	1986	1987	1988	1989
Obligations:	1,294	000	000	000	000	000

Description: Costs represent obligations for equipment lease, and commercial services for operation and maintenance of the Master Index System.

Item: Central Index

	1984	1985	1986	1987	1988	1989
Obligations:	1,000	2,042	2,042	2,042	2,042	2,042

Description: Costs represent obligations for equipment lease, and operation and maintenance of the Central Index System.

	1984	1985	1986	1987	1988	1989
Item: Financial Management Information System						
Obligations:	440	440	440	440	440	440
Description:	Costs represent obligations for equipment lease, and commercial services for operation and maintenance of the Financial Management Information System.					
Item: Word Processing Equipment						
Obligations:	978	978	978	978	978	978
Description:	Costs represent obligations for equipment lease for operation of the Word Processing System.					
Item: Interim Systems						
Obligations:	2,505	3,496	3,496	2,505	2,505	2,505
Description:	Costs represent obligations for equipment lease, and commercial data processing services for the operation of the Deportable Alien Control and the Naturalization and Citizenship Casework Control Systems.					
Item: Immigration Card Facility Operations						
Obligations:	3,250	3,250	3,250	3,250	3,250	3,250
Description:	Costs represent obligations for lease of equipment, and commercial services for operation of the Immigration Card Facility.					
Item: Automated Intrusion Detection System						
Obligations:	3,020	3,020	3,020	3,020	3,020	3,020
Description:	Costs represent obligations for capital investment in automated sensor equipment, and commercial services for system operation and maintenance.					

	1984	1985	1986	1987	1988	1989
Item: Network Communications						
Obligations:	757	1,076	1,506	1,795	1,911	1,993
Description:	Costs represent obligations for services for the operation of the network data communications segment of the INS equipment acquisition project.					
Item: INSINC						
Obligations:	1,451	1,451	1,451	1,451	1,451	1,451
Description:	Costs represent obligations for commercial services for the operation of the interim network data communications system.					
Item: Radio Communications						
Obligations:	3,721	4,900	4,900	4,900	4,900	4,900
Description:	Costs represent obligations for capital investment in radio communications and test equipment, and commercial services for radio systems design, and for maintenance and operation of radio communications systems.					

Civil Division

	1984	1985	1986	1987	1988	1989
Item: Lease of additional CPU's, terminals and printers						
Obligations:	2.295	2.410	5.842	5.842	5.842	5.842
Description:	To install AMICUS Division-wide					
Item: Lease of telecommunications services						
Obligations:	.403	.431	1.396	1.396	1.396	1.396
Description:	Expanding the AMICUS network of LAN communications.					

Department of Justice

	1984	1985	1986	1987	1988	1989
Item: ADPE time						
Obligations:	.056	.256	.256	.256	.256	.256
Description: To obtain legal research through the commercially available LEXIS, NEXIS and WESTLAW data bases.						
Item: Lease of CPU, terminals and printers						
Obligations:	.317	.367	.472	.472	.472	.472
Description: To continue and expand the Division's Case Management System						
Item: Operations and maintenance						
Obligations:	.248	.284	.284	.284	.284	.284
Description: To continue and expand the commerical data entry for the Case Management System						
Item: Litigation support equipment purchases						
Obligations:	.350	.350	.300	.300	.300	.300
Description: To provide automated litigation support services to Division attorneys with the establishment of microfilm libraries equipped with reader/printers and storage safes.						
Item: Litigation support operations and maintenance						
Obligations:	14.797	16.072	19.456	27.068	36.373	42.295
Description: Contractor-provided automated litigation support services						
Item: Files operations and maintenance						
Obligations:	.240	.320	.400	.480	.480	.480
Description: Contractor operated file units.						

U.S. Attorneys

	FY-1984	FY-1985	FY-1986	FY-1987	FY-1988	FY-1989
Item:	Purchase and lease of computers and word processing equipment for case management.					
Obligations:	$3,490	$5,900	$4,505	$2,135	$1,475	$1,475
Description:	These figures represent the cost of acquiring 32 computers and word processing equipment for 177 sites to run a case management system for United States Attorneys' Offices.					
Item:	Case Management System (PROMIS) Implementation.					
Obligations:	$3,405	$ 975	$ 100	$ 100	$ 100	$ 100
Description:	Figures through 1985 reflect projected costs of the present nationwide PROMIS implementation contract with INSLAW. Figures in the out years reflect an anticipated need for additional software development.					

Working Capital Fund

Item: Data Center Enhancement

Obligations:	1984	1985	1986	1987	1988	1989
	900	-	6,000	-	-	-

Description: The Department of Justice Data Center will install, in FY-84, adequate air conditioning, central monitoring and electrical systems to provide an acceptable data center environment for the replacement of the existing ADP equipment. Amount for FY-86 reflects an anticipated move to a new site.

Item: Data Center Central Processing Units (AMDAHL)

Obligations:	1984	1985	1986	1987	1988	1989
	3,600	3,600	3,600	3,600	3,600	3,600

Description: In 1983, the Justice Department awarded a competitive contract to provide the data center with the necessary central processing equipment configurations to satisfy user growth requirements for the next ten years. The amounts for 1984 through 1989 represent the anticipated maximum cost in equipment leases for the CPUs.

Department of Justice

Item: Acquisition of new Data Center in Dallas

	1984	1985	1986	1987	1988	1989
Obligations:	3,870	5,000	7,900	7,000	7,500	7,500

Description: An additional data processing facility will be established in Dallas, as of March 1984, to meet the increased demand for data processing capacity and to provide back-up capability in the event of a failure in the Washington, D.C. facility.

Item: Department of Justice National Data Network

	1984	1985	1986	1987	1988	1989
Obligations:	-	7,730	9,552	14,040	8,014	9,365

Description: During fiscal years 1985, 1986 and 1987, funding is to provide for implementation of a five (5) node backbone data network, per year, with accompanying network control functions and PADS. The nodes will be geographically disbursed nationally.

Item: Replacement of Washington Department of Justice Centrex II System

	1984	1985	1986	1987	1988	1989
Obligations:	-	-	10,000	3,600	4,000	4,400

Description: During fiscal year 1986, funding is to provide for replacement of the Washington DOJ Centrex system with a modern, non-blocking, digitally based integrated voice and data private branch exchange (PBX). The funding for fiscal years 1987 through 1989 is for growth, operating costs and recurring maintenance.

Justice Management Division

Item: Automated Acquisition System for the Library

	1984	1985	1986	1987	1988	1989
Obligation:	476	500	527	555	584	614

Description: Contractual services are provided to the Library for an automated acquisition system. These services provide maintenance support for both the hardware and software packages of the system. In addition, on-site services provide keyboarding of the information for the Department to track and acquire publications of interest.

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Item: Automated Information Systems Plan Implementation

Obligation:	1984	1985	1986	1987	1988	1989
	1900	7000	9000	5200	1000	0

Description: The JMD has completed its first formal Automated Information Systems (AIS) Plan, consisting of strategic and tactical sections. The latter resulted in the identification of 29 projects within the four broad categories of Financial, Human Resources, Administrative, and Legal Resources and Management Control systems, to be upgraded and/or designed.

Antitrust Division

Item: Litigation Support

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	2,803.0	3,141.7	3,172.0	3,519.0	3,552.0	3,890.0

Description: This Item includes general and specialized litigation support software development, use and maintenance; JURIS automated legal research activities; training seminars; and licensing fees for specialized data bases.

Item: Case Management & Management Information Systems

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	743.0	682.0	679.0	679.5	686.5	692.0

Description: This Item includes software development and maintenance; licensing fees for third-party software; non-Wang terminals and graphics equipment; and FMIS reimbursable charges.

Item: Office Automation

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	2,281.9	1,935.8	1,560.0	1,586.8	1,646.0	1,740.2

Description: This Item includes all costs associated with Wang shared-logic equipment, software, and related services; facilities management and support; licensing fees/maintenance for third-party software; and non-recurring costs for the establishment of a local area network (FY 1984).

Item: Teleprocessing Services

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
Obligations:	1,617.0	1,632.0	1,448.0	1,158.0	1,175.0	1,190.0

Description: This Item includes time-sharing activities under GSA's TSP program for full processing (FY 1984), partial processing (FY 1985-1986), and contingency services (FY 1987-1989); reimbursable time-sharing services expected to be provided by the Justice Computer Service; specialized time-sharing services associated with access to certain proprietary software and data bases; and telecommunications costs.

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Executive Office for Immigration Review

Item: Lease of Equipment

	1984	1985	1986	1987	1988	1989
Obligations:	300	1,219	1,219	1,219	1,219	1,219

Description: EOIR will lease equipment for its automated management information system including a minicomputer at its headquarters, microcomputers in each of its field offices and peripheral equipment comprised of workstations, telecommunications equipment and software.

Item: Systems Design, Engineering and Analysis

	1984	1985	1986	1987	1988	1989
Obligations:	416	243	200	200	200	200

Description: EOIR will contract for the design, engineering and analysis of its automated management information system.

Item: Phase II and Phase III of the further development of the INTERPOL - USNCB Case Tracking system.

	1984	1985	1986	1987	1988	1989
Obligation:	656	586	0	0	0	0

Description: Phase I will convert the existing data and programs of the INTERPOL Case Tracking System to computers housed in the Department of Justice Data Center, to speed up the access time for the users and to provide a secure environment for the hardware.

Phase II will provide for improving and updating software, moving from a one-to-one relational hierarchy system, to a networked approach, permitting automation of interrelationships between multifaceted criminal investigations. During Phase II, 30 terminals and the report generator capability will be added.

Phase III will provide for an interface of the INTERPOL Case Tracking System with other computerized data bases currently accessible to the USNCB. This will merely automate what currently is done manually.

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DEPARTMENT OF THE TREASURY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of the Secretary

Item: Upgrade or replace mainframe computer

	1984	1985	1986	1987	1988	1989
Obligations:	$---	$2,400	$---	$---	$---	$---

Description: Replace or upgrade mainframe equipment in FY 1985.

Item: Miscellaneous word processing and ADP equipment

	1984	1985	1986	1987	1988	1989
Obligations:	$600	$480	$---	$---	$---	$---

Description: Acquisition of miscellaneous items such as word processing equipment, terminals, disk and tape drives and maintenance contracts.

Item: Contractual Studies

	1984	1985	1986	1987	1988	1989
Obligations:	$---	$1,416	$---	$---	$---	$---

Description: Various ADP-related contracts to conduct statistical, economic and other analyses on specific policy issues, and a contract to implement the new 24-hour watch project.

Federal Law Enforcement Training Center

Item: Upgrade of Current ADP Center

Obligations:	1984	1985	1986	1987	1988	1989
	179.3	447.6	500	50	60	60

Description: ADP expansion to accommodate plans to ensure educational ADP support needs are met.

Department of the Treasury

Item: Telecommunication Services

1984	1985	1986	1987	1988	1989
178	187	196	500	10	11

Description: Leased telecommunication services from AT&T until purchase of system because of deregulation process.

Item: Central Word Processing System

1984	1985	1986	1987	1988	1989
170.2	48.4	10	12	12	15

Description: Upgrade and expansion of 18-station central word processing system.

Bureau of Government Financial Operations

Item: Check Payment and Reconciliation System Redesign

Obligations:	1984	1985	1986	1987	1988	1989
	875	840	500	550	600	660

Description: Contractor support services to redesign the current system, the acquisition of equipment and services to convert check issue source documents to computer readable media.

Item: Paper Check Conversion

Obligations:	1984	1985	1986	1987	1988	1989
	6,729	6,630	997	1,026	1,077	1,131

Description: Contractor support services and acquisition of print systems, sealing and inserting machines, and modifications to existing equipment to convert Treasury and non-Treasury disbursing operations from card to paper checks.

Item: Replacement of OCR Equipment

Obligations:	1984	1985	1986	1987	1988	1989
	500	940	252	265	278	292

Description: Contractor support services and acquisition of equipment to continue processing of payment data submitted using the SF 1166, OCR voucher form, and to provide the data capture medium for the paper check environment.

Item: Honeywell Computer System Upgrade

	1984	1985	1986	1987	1988	1989
Obligations:	1,443	1,524	1,638	1,763	1,896	2,011

Description: Contractor support services for the eight Honeywell computer systems to provide a reliable and efficient system of making payments.

Item: Headquarters Data Systems Augmentation

	1984	1985	1986	1987	1988	1989
Obligations:	404	753	791	831	873	917

Description: Rental and other costs related to the acquisition of additional computer equipment to augment equipment now in use in BGFO headquarters.

Bureau of Alcohol, Tobacco, and Firearms

Item: Communications Systems

	1983 ACTUALS	1984	1985	1986	1987	1988
Obligations:	2,829	3,126	5,669	5,849	6,038	4,236

Description: Purchase, rental, and maintenance costs associated with Bureauwide communication systems. Phased in conversion of Digital Voice Privacy (DVP) radio system from FY 1985 through FY 1987. (Cost per year is $2,000,000).

Item: Integrated Wordprocessing System

	1983 ACTUALS	1984	1985	1986	1987	1988
Obligations:	580	917	955	1,002	1,051	1,102

Description: Rental and maintenance costs associated with a Bureauwide integrated wordprocessing capabilities.

Department of the Treasury

Item: ADP Systems

	1983 ACTUALS	1984	1985	1986	1987	1988
Obligations:	837	862	948	994	1,043	1,094

Description: Purchase, rental, and maintenance costs associated with a new Bureauwide data processing facility.

U.S. Customs Service

Item: Integrated Network

Obligations:	1984	1985	1986	1987	1988	1989
	0	2,500	300	300	300	300

Description: Equipment needed will include mini-computers, packet switching equipment and earth station antennas.

Item: Automated Commercial System

Obligations:	1984	1985	1986	1987	1988	1989
	0	8,800	1,330	1,330	1,330	1,330

Description: Equipment and services needed to support the Automated Commercial System includes a hardware upgrade, terminals, and data reduction center contract support.

Bureau of Engraving and Printing

Item: Financial Management Information System

Obligations:	1983	1984	1985	1986	1987	1988
	1,686	2,975	600	--	--	--

Description: To perform the detailed design and implementation of the new automated Financial Management Information System (FMIS) as developed by Arthur Young and Company in the FMIS Conceptual Design, and to procure and install all computer and data entry equipment necessary to support the new system.

Bureau of the Public Debt

Item: OCR/MICR

Obligations:	1984	1985	1986	1987	1988	1989
	1,128	76	76	76	76	76

Description: Purchase and maintenance costs related to the procurement of data capture equipment capable of Optical Character Recognition/Magnetic Ink Character Recognition.

Item: Project NEW

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,259	1,896	1,256	2,640	1,056

Description: Lease, conversion to purchase and maintenance costs associated with a new computer and office automation system.

Internal Revenue Service

Item: Automated Collection System (ACS)

Obligations:	1984	1985	1986	1987	1988	1989
	23,025	27,286	25,786	27,186	25,386	21,586

Description: Applies state-of-the-art computer and telephone technology to the processing of delinquent accounts and returns.

Item: Automated Examination System (AES)

Obligations:	1984	1985	1986	1987	1988	1989
	5,000	16,344	21,900	38,950	20,700	7,250

Description: Applies contemporary technology to the examination process and is designed to integrate with existing Service programs.

Item: Distributed Input System (DIS)

Obligations:	1984	1985	1986	1987	1988	1989
	6,993	12,737	14,846	14,474	10,550	4,564

Description: Replaces the outdated Direct Data Entry System with a system utilizing mini-computers, each capable of supporting between 32 and 64 terminals.

Item: Error Resolution

Obligations:	1984	1985	11986	1987	1988	1989
	0	1,475	2,519	3,504	3,190	2,337

Description: Transfer the Error Resolution function from Service Center Replacement System (SCRS) hardware to the Distributed Input System (DIS).

Item: Tax Processing System Redesign (TPSR)

Obligations:	1984	1985	1986	1987	1988	1989
	3,000	9,708	47,867	52,359	165,662	165,727

Description: Redesign the tax processing system, allowing for state-of-the-art technology in hardware, data storage, and data communications.

Item: Service Center Replacement System (SCRS)

Obligations:	1984	1985	1986	1987	1988	1989
	19,786	31,762	30,839	23,783	20,703	13,926

Description: To meet increased workload demands at the Service Centers, new applications and enhancements will be added to the current Service Center Replacement System.

Item: Master File Replacement System (MFRS)

Obligations:

1984	1985	1986	1987	1988	1989
1,770	2,164	731	784	493	528

Description: Planned upgrades and replacement of Service Center equipment used to process master files of taxpayer accounts.

Item: Optical Character Recognition (OCR) for Remittance Processing System (RPS)

Obligations:

1984	1985	1986	1987	1988	1989
736	3,047	2,846	2,840	2,642	1,992

Description: Accelerate remittance deposits and reduce data input errors through the application of Optical Character Recognition (OCR) to the Remittance Processing System.

Item: OCR of Federal Tax Deposits

Obligations:

1984	1985	1986	1987	1988	1989
1,693	2,566	2,634	2,685	2,349	1,026

Description: Process Federal Tax Deposits by utilizing OCR technology to read and microfilm FTD documents, and to identify certain types of errors.

Item: Multi-Font OCR-IRP Documents

Obligations:

1984	1985	1986	1987	1988	1989
0	2,915	3,875	3,875	3,355	1,535

Description: Automate the manual conversion of data from paper information returns to magnetic media through the use of OCR technology.

Item: Mini/Micro Computer Equipment Contract

Obligations:

1984	1985	1986	1987	1988	1989
3,280	6,443	4,864	5,350	5,885	6,474

Description: Contract allows for the Servicewide aquisition of uniform hardware and software.

Item: Executive Support System

Obligations:	1984	1985	1986	1987	1988	1989
	142	2,578	2,420	1,920	1,920	1,920

Description: Provide office automation and information support to all senior Executive Service personnel and their immediate staffs.

Item: Office Automation System for Inspection (OASIS)

Obligations:	1984	1985	1986	1987	1988	1989
	4,682	5,922	1,400	1,540	1,694	1,864

Description: Automate the office automation functions of the Assistant Commissioner (Inspection).

Item: Contractual Support Services

Obligations:	1984	1985	1986	1987	1988	1989
	200	4,200	7,500	8,000	9,000	10,000

Description: Provide for outside contractual support in lieu of staffing increases.

Item: Data Communications Studies

Obligations:	1984	1985	1986	1987	1988	1989
	650	1,150	0	0	0	0

Description: Obtain contractual services support for the analysis, development, and preparation of communication management controls.

Item: Detroit Data Center Terminals/Printers

Obligations:	1984	1985	1986	1987	1988	1989
	2,980	3,380	3,954	4,349	2,155	2,370

Description: Acquire new equipment at the Data Center to support new applications and users.

Item: National Computer Center Terminals & Front-End Processor

Obligations:

1984	1985	1986	1987	1988	1989
431	456	839	900	966	1,036

Description: Purchase, install, and maintain video display terminals for Computer Services organizations and Internal Audit.

Item: IDRS Terminal Replacement

Obligations:

1984	1985	1986	1987	1988	1989
19,710	21,484	13,099	7,738	7,694	7,694

Description: Replace current terminals with a new network that uses an industry-standard data communications protocol.

Item: High Speed Non-Impact Printer Replacement

Obligations:

1984	1985	1986	1987	1988	1989
4,525	6,686	7,406	6,129	5,079	3,856

Description: Replace current printers with those capable of producing OCR-quality documents.

Item: Billing-Equipment Replacement System (BERS)

Obligations:

1984	1985	1986	1987	1988	1989
405	1,384	2,958	403	443	487

Description: Test and install a new system, utilizing contemporary equipment, for processing low-volume and complex returns.

Item: Remittance Processing System (RPS)

Obligations:

1984	1985	1986	1987	1988	1989
4,609	4,679	4,751	4,825	4,902	4,981

Description: Utilize automation to endorse, sort, stack, and balance remittances and to create an audit trail of RPS activity.

Item: IRS/Federal Area Records Center Datalink

Obligations:	1984	1985	1986	1987	1988	1989
	702	1,082	1,097	1,114	940	651

Description: Provides automatic batching and data transmission of document requests from the service centers to the Federal Archives and Records Center.

Item: Revenue Accounting Control System (RACS)

Obligations:	1984	1985	1986	1987	1988	1989
	978	163	1,043	327	266	266

Description: Utilize a minicomputer, instead of manual methods, to enter, track, and summarize accounting information.

Item: Data Communications Processing System (DCPS) & DCPS Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	684	6,083	4,620	4,620	4,620	4,620

Description: Upgrade the current Data Communications Processing System to support the IDRS terminal replacement and enhancement efforts.

Item: Check Sorting Equipment

Obligations:	1984	1985	1986	1987	1988	1989
	120	849	1,051	1,612	1,454	437

Description: Utilize a free-standing check sorting system to shorten the time between receipt and deposit of checks.

Item: Windfall Profit Tax

Obligations:	1984	1985	1986	1987	1988	1989
	855	848	872	965	1,074	1,196

Description: Acquire terminals, printers, and communication ports to support the administration of Windfall Profit Tax legislation. Continue timesharing contracts to generate Windfall Profit Tax producer audit reports.

Item: ADP Supplies

Obligations:

1984	1985	1986	1987	1988	1989
489	538	592	651	716	787

Description: Provide supplies for major computer systems at service centers, NCC, Data Center, and the regions; maintain general ledger accounting machines at service centers and the Data Center.

Item: IRP Management Information System

Obligations:

1984	1985	1986	1987	1988	1989
0	3,963	2,760	1,296	1,296	1,296

Description: Develop and procure a management information system to provide standardized, detailed, cohesive data on IRP workload volumes, costs, and benefits.

Item: Phone In-Refund Inquiry Status Module (PRISM)

Obligations:

1984	1985	1986	1987	1988	1989
50	1,267	129	131	156	171

Description: Test and utilize voice response equipment to provide refund information to taxpayers.

Item: Transaction Processor

Obligations:

1984	1985	1986	1987	1988	1989
10	350	0	700	0	0

Description: Test the feasibility of accomplishing all service center pipeline functions at a single workstation.

Item: Office Automation for Returns & Information Processing

Obligations:

1984	1985	1986	1987	1988	1989
833	1,157	1,303	1,303	1,303	1,303

Description: Online work planning and control data base, acquisition of office automation equipment, and maintenance costs of hardware and software for Assistant Commissioner (Returns & Information Processing).

Item: Timesharing

Obligations:	1984	1985	1986	1987	1988	1989
	1,794	3.312	3,479	3,645	3,927	4,127

Description: Cost of Examination, Appeals, and Enforcement Litigation and Rulings' costs to utilize the LEXIS system, a computerized research system that provides prompt access to technical reference materials. Also includes timesharing services from other government agencies and commercial sources for Examination.

Item: Computer Assisted Audit Program Interactive/ Remote Job Entry System (CAAPIRS)

Obligations:	1984	1985	1986	1987	1988	1989
		5,600	5,800	5,900	6,000	6,100

Description: Install system equipment. System will become the primary support system of CAAP.

Item: Computer Assisted Audit Program (CAAP)

Obligations:	1984	1985	1986	1987	1988	1989
		200	250	275	300	325

Description: Utilize computers to the maximum extent possible in tax examinations.

Item: Report Writing Equipment

Obligations:	1984	1985	1986	1987	1988	1989
	1,280	2,600	3,000	3,200	3,400	3,600

Description: Provide for annual reprogramming and maintain the NCR report writing equipment.

Item: Local Examination Support

Obligations:	1984	1985	1986	1987	1988	1989
	0	400	600	600	600	600

Description: Computer activity support by service centers for small projects requested by district offices.

Item: Office Automation Assistant Commissioner (Examination)

Obligations:	1984	1985	1986	1987	1988	1989
		2,000	2,000	2,000	2,000	2,000

Description: Automate the office of the Assistant Commissioner (Examination).

Item: National Office ADP Support (Examination)

Obligations:	1984	1985	1986	1987	1988	1989
	50	2,220	213	223	223	223

Description: Full office automation for the National Office Examination staff to reduce paperwork, eliminate duplication, improve decision making, productivity, and quality of work product.

Item: Counsel/Appeals Tracking System (CATS)

Obligations:	1984	1985	1986	1987	1988	1989
		3,474	3,788	4,260	4,686	5,155

Description: System computerizes the tracking and control of appeals.

Item: Technical's Automated Management Information System (TAMIS)

Obligations:	1984	1985	1986	1987	1988	1989
		276	277	278	278	278

Description: Interactive, on-line case and time reporting system, providing management with the means to monitor the status of individual cases and the ability to make inquires requesting definitive interpretations of tax law.

Item: Automation of EP Determinations

Obligations:	1984	1985	1986	1987	1988	1989
	21	711	781	856	936	1,026

Description: Automate the Employee Plan determination area in both the National Office and the key district offices through the use of minicomputers.

Item: Automated Criminal Investigation (ACI)

Obligations:	1984	1985	1986	1987	1988	1989
	0	1,966	16,415	4,532	4,701	4,872

Description: Establish a Management Information System (MIS) within Criminal Investigation and use ADP technology to modernize case processing and information gathering and to provide electronic mail capability.

Item: Collection Field Function

Obligations:	1984	1985	1986	1987	1988	1989
	0	0	5,000	0	0	0

Description: Fully automate the Collection Field Function with communication or interface with IDRS/SCRS and ACS.

Item: Collection Management Information Network

Obligations:	1984	1985	1986	1987	1988	1989
	200	712	220	220	220	220

Description: Continue existing management information systems and reports.

Item: ACS Data Transmission

Obligations:	1984	1985	1986	1987	1988	1989
	5,100	5,100	2,500	2,500	2,500	2,500

Description: Provide data transmission for the Automated Collection System (ACS).

Item: Office Automation (Taxpayer Service)

Obligations:	1984	1985	1986	1987	1988	1989
		254	254	254	254	254

Description: Maintenance of office automation in the taxpayer service activity.

Item: Inventory Control & Distribution System

Obligations:	1984	1985	1986	1987	1988	1989
	1,050	1,115	1,212	1,271	1,333	1,398

Description: Interactive computer system composed of several major forms and publications program modules.

Item: Centralized Inventory & Distribution System

Obligations:

1984	1985	1986	1987	1988	1989
1,539	1,539	2,121	1,389	1,496	1,612

Description: Redesign the Service's form distribution network into a new consolidated centralized computer system used to support the distribution of printed products within IRS.

Item: Capital Assests Management System

Obligations:

1984	1985	1986	1987	1988	1989
1,000	845	845	925	845	845

Description: Interactive computer based system which will manage and track Servicewide personal property.

Item: Computer Assisted Publishing

Obligations:

1984	1985	1986	1987	1988	1989
292	292	592	392	392	392

Description: System which assists the publishing services branch in the management of the printing budget, text processing, and budget and travel management.

Item: Computer Based Training in the 80's

Obligations:

1984	1985	1986	1987	1988	1989
719	719	764	764	764	764

Description: Computer based training system designed to provide consistent and improved training, rapid updates of training materials and better management controls and evaluations.

Item: CAPS (Training Material Text Processing)

Obligations:

1984	1985	1986	1987	1988	1989
	464	464	464	464	464

Description: Place terminals, printers, and modems in each branch and section of the Training and Development Division and one in each Regional Training Office to automate the updating, revision, and development of training materials.

Item: Payroll/Personnel Modernization

Obligations:	1984	1985	1986	1987	1988	1989
	132	363	1,635	1,453	1,938	2,280

Description: Acquire system to provide remote input of data and transactions related to payroll and time and attendance data.

Item: Labor Related Information Retrieval System

Obligations:	1984	1985	1986	1987	1988	1989
	60	760	430	452	464	488

Description: Install system connecting the National Office Labor Relations Branch with the field, providing up-to-date information on administrative and court decisions, and providing tracking of in-house cases.

Item: Decision Enhancing Management Information System/ Director Operations Resources Management System

Obligations:	1984	1985	1986	1987	1988	1989
	69	69	1,081	1,063	1,013	988

Description: Acquisition and installation of these systems, one of which provides integrated measures of IRS work products, services, and programs (DEMIS), and the other which is a time reporting and work measurement management control system (DORMS).

Item: Human Resources Functional Support System

Obligations:	1984	1985	1986	1987	1988	1989
	0	444	431	414	444	474

Description: System provides management information and data on operations and resource allocation for the area of Human Resources.

Item: Budget Preparation System

Obligations:	1984	1985	1986	1987	1988	1989
	600	600	600	300	0	0

Description: Continue utilization of the commercial timesharing system used to prepare the Service's budget submission to Treasury, OMB, and Congress and to prepare the internal operating financial plan.

Item: Automated Financial System

Obligations:	1984	1985	1986	1987	1988	1989
	1,798	1,500	1,500	0	0	0

Description: Devise a state-of-the-art computer system to handle accounting, budgeting, and management information services.

U.S. Secret Service

Item: MASTER CENTRAL INDEX SYSTEM

Obligations:	1984	1985	1986	1987	1988	1989
	400	1141	1386	1486	1586	1686

Description: Purchase and on going rental and maintenance costs associated with the installations of a high speed nationwide data communications network for investigative activities.

Item: SATELLITE COMMUNICATIONS NETWORK

Obligations:	1984	1985	1986	1987	1988	1989
		3,000	3,000	3,000	3,000	3,000

Description: Lease of Satellite Communications space and equipment for the Secret Service nationwide data and voice communications network.

Item: COMPUTER MAINFRAME REPLACEMENT

Obligations:	1984	1985	1986	1987	1988	1989
	250	300	1,000	2,000	2,000	2,000

Description: The above figures represent the increase over the currently installed base of $ 950,000.00 and includes the preliminary studies, contract development and equipment evaluation and lease cost.

DEPARTMENT OF TRANSPORTATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of the Secretary

Item: Procurement of DOT owned switch DCU: 4100

Oblig:	1984	1985	1986	1987	1988	1989
	11,200	0	0	0	0	0

Desc: None

United States Coast Guard

```
 ITEM: STANDARD TERMINALS FOR VESSELS                    DCU: 6200
 ----- -------- --------- --- -------                    ---- ----


OBLIG:          1984       1985       1986       1987       1988       1989
------          ----       ----       ----       ----       ----       ----

                   0      1,850      6,800      1,930          0          0
 DESC: PROVIDE ADP CAPABILITY ON COAST GUARD VESSELS FOR INVENTORY
       MANAGEMENT, BUDGET, PREVENTIVE MAINTENANCE, SUPPLY, LAW
       ENFORCEMENT REPORTING, SEARCH AND RESCUE DATA BASE

 ITEM: HQ STANDARD AUTOMATED ACCOUNTING SYSTEM            DCU: 6200
 ----- -- -------- --------- ---------- ------            ---- ----


OBLIG:          1984       1985       1986       1987       1988       1989
------          ----       ----       ----       ----       ----       ----

                   0      5,100      4,200      3,300      4,600          0
 DESC: PROVIDE STANDARDIZED SYSTEM TO ACCOUNT FOR COAST GUARD
       OPERATING EXPENSES, ALLOCATIONS, OBLIGATIONS, EXPENDITURES

 ITEM: EXPANDED ADP FOR STANDARD TERMINALS               DCU: 6200
 ----- -------- --- --- -------- ---------               ---- ----


OBLIG:          1984       1985       1986       1987       1988       1989
------          ----       ----       ----       ----       ----       ----


                   0        900      7,400      5,500      3,700      1,400
 DESC: PROVIDE CORE OF HARDWARE AND SOFTWARE TO FIELD UNITS FOR
       WORD PROCESSING, COMMUNICATIONS SUPPORT, RECORDS MANAGEMENT,
       MODEST ADP CAPABILITY

 ITEM: EXPANDED ADP FOR MINICOMPUTERS                        DCU: 6200
 ----- -------- --- --- ------------                        ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                 0           0       7,350           0           0           0
 DESC: PROVIDE MINICOMPUTERS FOR DISTRICT OFFICES, SUPPORT CENTERS
       AND TRAINING CENTERS

 ITEM: VTS STANDARDIZED COMPUTER REPLACEMENT                 DCU: 6200
 ----- --- ------------ -------- -----------                 ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                 0           0       3,100           0           0           0
 DESC: REPLACEMENT OF SPECIAL CAPABILITY HARDWARE AND SOFTWARE
       FOR VESSEL TRAFFIC SERVICE

 ITEM: UPGRADE AR&SC MAINFRAME COMPUTER                      DCU: 6200
 ----- ------- ----- --------- --------                      ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                 0           0       2,100           0           0           0
 DESC: REPLACEMENT OF COMPUTER SYSTEM AT COAST GUARD AIRCRAFT
       REPAIR AND SUPPLY CENTER, ELIZABETH CITY, NC

 ITEM: ADP RESOURCES FOR PMIS/JUMPS                          DCU: 6200
 ----- --- --------- --- ----------                          ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                 0           0           0           0       2,100           0
 DESC: PROVIDE ADDITIONAL PROCESSING CAPABILITY FOR COAST GUARD
       PERSONNEL MANAGEMENT INFORMATION SYSTEM AND JOINT UNIFORM
       MILITARY PAY SYSTEM

 Item: captial investments                                DCU: 1100
 ----- ------- -----------                                ---- ----

Oblig:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

             1,167           2           0           0           0           0
```

Desc: composite cost of administrative telecommunications equipment and sites purchased by coast guard wide units and activities. purchases include teletypes, local telephone systems, handheld radios, modems, patch panels, uhf/vhf radios, telephone data sets, pbx systems and site cost for telephone installations

Item: lease of equipment DCU: 1100

Oblig:	1984	1985	1986	1987	1988	1989
	397	353	412	429	447	465

Desc: composite cost of various types of telecommunications equipment leased by coast guard wide units and activities. include teletypes, modems, data terminals, multiplexors, interconnect equipment, facsimiles, and telex/twx. increases reflect projected cost of living and changes in rates

Item: com'l leased telecoms-gte telenet service DCU: 1100

Oblig:	1984	1985	1986	1987	1988	1989
	1,664	1,747	1,834	1,926	2,022	2,123

Desc: data telecommunication service (access facilities/packet charges) provided by gte. services are used for personnel management and for the marine safety information system (msis)

Item: com'l lease telecoms-administrative telephone cg DCU: 1100

Oblig:	1984	1985	1986	1987	1988	1989
	1,872	1,947	2,025	2,106	2,190	2,300

Desc: administrative telephone system at coast guard hq. include toll charges

Item: com'l leased telecomms-cg fld units DCU: 1100

Oblig:	1984	1985	1986	1987	1988	1989
	1,649	1,731	1,817	1,908	2,004	2,104

Desc: composite cost of administrative telecommunications service for coast guard wide field units

Item: com'l leased telecomms-data sy div-cg hq DCU: 1100

Oblig:	1984	1985	1986	1987	1988	1989
	275	282	296	311	327	343

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Department of Transportation

Desc: telecommunications cost for the transportation terminal center - coast guard hq. includes recurring maintenance, terminal equipment, terminal center management contract and copier equipment

Federal Aviation Administration

ITEM: REPLACEMENT OF REGIONAL FACILITIES. DU: HQ

OBLIG:	1983	1984	1985	1986	1987	1988	1989
	5,487	7,179	7,921	7,479	5,320	4,477	

DESC: RENTAL, PURCHASE AND MAINTENANCE COSTS FOR THE REPLACEMENT OF COMPUTERS AT 9 ADP FACILITIES.

ITEM: REPLACEMENT OF AERO CENTERS ADP FACILITIES DU: AAC

OBLIG:	1983	1984	1985	1986	1987	1988	1989
	1,500	2,496	4,776	638	113	-0-	

DESC: RENTAL, PURCHASE AND MAINTENANCE COSTS FOR THE UPGRADING/REPLACEMENT OF COMPUTERS AT THE CENTRAL ADP FACILITY IN OKLOHOMA CITY.

ITEM: UPGRADING/REPLACEMENT OF WORD PROCESSING FACILITIES DUB: W/P

OBLIG:	1983	1984	1985	1986	1987	1988	1989
	5,421	6,039	6,085	4,150	2,950	2,550	2,550

DESC: RENTAL, PURCHASE, MAINTENANCE AND CONVERSION COSTS FOR THE UPGRADING/REPLACEMENT OF WORD PROCESSING FACILITIES THROUGHOUT THE AGENCY.

ITEM: TELEPHONE SWITCHING SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3,650	0	0	0	0	0

DESCRIPTION: REPLACEMENT OF TELEPHONE SWITCHING SYSTEM AT THE FAA TECHNICAL CENTER

ITEM: TELEPHONE EQUIPMENT

OBLIGATIONS:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+4
	0	100	100	100	100	100

DESCRIPTION: DUE TO DIVERSTITURE OF BELL SYSTEM NEW EQUIPMENT IS REQUIRED TO REPLACE EXISTING BELL EQUIPMENT AT FACILITIES REQUIRED TO RELOCATE

ITEM: ADMINISTRATIVE DATA COMMUNICATIONS NETWORK

OBLIGATIONS:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+4
	768	222	247	174	176	252

DESCRIPTION: EXERCISE OF PURCHASE OPTION UNDER LEASE WITH OPTION TO PURCHASE AS WELL AS SOME OUT RIGHT PURCHASE OF DATA TELECOMMUNICATIONS HARDWARE NEEDED TO SERVE EXPANDING ADP APPLICATIONS

Research and Special Programs Administration

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 ITEM: VAX COMPUTER SYSTEM                                 DCU: 8500
 ----- --- -------- ------                                 ---- ----


OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                340         440         180         310         200         150
 DESC: PURCHASE AND MAINTENANCE COSTS ASSOCIATED WITH THE
       ACQUISTION OF A VAX 11/780 MINICOMPUTER SYSTEM THAT WILL.
       HAVE OVER TIME A CLUSTER OF THREE CENTRAL PROCESSING UNITS.

 ITEM: IBM-PLUG COMPATIBLE COMPUTER SYSTEM                 DCU: 8500
 ----- -------- ---------- -------- ------                 ---- ----


OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                  0       1,100         340         350         730         380
 DESC: PURCHASE AND MAINTENANCE COSTS ASSOCIATED WITH THE
       ACQUISITION OF A MID-SIZED IBM PLUG COMPATIBLE SYSTEM.

 ITEM: ADP SUPPORT SERVICE CONTRACT                        DCU: 8500
 ----- --- ------- ------- --------                        ---- ----
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OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

             9,503      12,270      15,200      18,900      23,300      29,200
 DESC: TSC'S IN-HOUSE ADP SUPPORT SERVICES CONTRACT THAT PROVIDES
       SUPPORT IN THE AREAS OF APPLICATIONS PROGRAMMING AND ANALYSIS
       COMPUTER OPERATIONS, SYSTEMS PLANNING, AND SOFTWARE MAINTENANCE.

 ITEM: ACQUISTION OF A TELECOMMUNICATION SYSTEM          DCU: 8500
 ----- ---------- -- - ---------------- ------           ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

                 0       1,600           0           0           0           0
 DESC: RSPA-TSC HAS PROPOSED TO ACQUIRE A REPLACEMENT
       TELEPHONE-PBX SYSTEM WITH INTEGRATED VOICE AND DATA CAPABILITY.
       THE SYSTEM WOULD REPLACE, WITH MODERN TECHNOLOGY, AN EXISTING
       SYSTEM OF 780 PRIMARY LINES AND 340 SECONDARY SETS WITH
       AN ADDITIONAL 227 LINES USED FOR DATA.
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Office of Inspector General

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 ITEM: TECHNICAL SUPPORT AND ADP AUDIT                    DCU: 0900
 ----- --------- ------- --- --- -----                    ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

               343         349         358         366         374         382
 DESC: COMPUTER RESOURCES REGIRED TO AUDIT AND SUPPORT AUDITS OF
       COMPUTERIZED SYSTEMS AND COMPUTERIZED DATA.

 ITEM: MANAGEMENT INFORMATION SYSTEM                      DCU: 0900
 ----- ---------- ----------- ------                      ---- ----

OBLIG:        1984        1985        1986        1987        1988        1989
------        ----        ----        ----        ----        ----        ----

               476         496         516         537         558         578
 DESC: INFORMATION SYSTEM TO PROVIDE INFORMATION ON THE PROGRESS IN
       ACCOMPLISHING THE GOALS AND MISSION OF THE OFFICE OF THE
       INSPECTOR GENERAL.
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Transportation Computer Center

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 ITEM: AMDAHL COMPUTER SYSTEMS                                 DCU: 0300
 ----- ------ -------- -------                                 ---- ----


OBLIG:       1984      1985      1986      1987      1988      1989
------       ----      ----      ----      ----      ----      ----

              863       855     1,420         0         0         0
 DESC: PURCHASE OF ADDITIONAL EQUIPMENT AND FEATURES TO UPGRADE THE AMDAHL
       COMPUTER SYSTEMS. THIS IS NECESSARY IN ORDER TO SUPPORT THE ANTICIPATED
       EXPANDED CUSTOMER BASE.

 ITEM: TRANSPORTATION OFFICE NETWORK SYSTEM (TONS)             DCU: 0300
 ----- -------------- ------ ------- ------ ------             ---- ----


OBLIG:       1984      1985      1986      1987      1988      1989
------       ----      ----      ----      ----      ----      ----

            1,800       250       275       300       325       350
 DESC: TAOS FACILITIES THE WORK ENVIRONMENT OF BOTH THE EXECUTIVE AND
       SECRETARY BY PROVIDING AN OFFICE AUTOMATION TOOL THAT GOES BEYOND
       THE SCOPE OF BASIC WORD PROCESSING. TONS IS A MULTI-FUNCTIONAL
       AUTOMATED OFFICE SYSETEM OFFERING A USER THE FACILITIES OF WORD
       PROCESSING, ELECTRONIC MAIL, CALENDAR, DIRECTORIES, TELEPHONE LOG
       TICKLER AND ELECTRONIC SPREAD SHEET. IT IS USED WIDELY THROUGHOUT
       THE OFFICE OF THE SECRETARY. IT IS ALSO USED IN MARAD, UMTA AND
       SLSDC.

 ITEM: DATA PREPARATION                                        DCU: 0300
 ----- ---- -----------                                        ---- ----


OBLIG:       1984      1985      1986      1987      1988      1989
------       ----      ----      ----      ----      ----      ----

            1,270     1,465     1,679     1,935     2,220     2,555
 DESC: CONTRACTURAL DATA PREPARATION COSTS.
```

GENERAL SERVICES ADMINISTRATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of Personal Property - OE Direct

Item: FSS National Automated Data Processing Logistics Systems

Obligations:	1984	1985	1986	1987	1988	1989
	6,078	8,938	9,106	12,210	12,438	11,029

Description: Site preparation, equipment rental, ADP analysis and programming, and operations and maintenance costs associated with the FSS national automated data processing logistics systems, including FSS-19, FSS-23, FSS-28 and all their applications.

Item: Management Information/Operational Support Systems

Obligations:	1984	1985	1986	1987	1988	1989
	713	747	784	-	-	-

Description: Time sharing services previously acquired in support of FSS Management Information and Operational Systems that will continue pending full implementation of scheduled improvements and enhancements to existing systems.

Office of Personal Property - Reimbursable

Item:

Obligations:	1984	1985	1986	1987	1988	1989
		Negative				

Description:

Office of Personal Property - General Supply Fund

Item: FSS National Automated Data Processing Logistics Systems

Obligations:	1984	1985	1986	1987	1988	1989
	4,565	1,500	8,028	1,500	-	-

Description: Provides for the purchase of ADP equipment to improve and enhance ADP capabilities in support of the FSS national automated data processing logistics systems.

Item: Motor Equipment Management Information and Control System/ Centralized Maintenance Control Center Program

Obligations:	1984	1985	1986	1987	1988	1989
	1,071	1,740	690	673	707	707

Description: Provides operation and maintenance for ADP equipment in support of the Motor Equipment Management Information and Control System (ME/MICS) and enhancement of the Centralized Maintenance Control Center (CMCC) program. Provides contract support in FY 1985 for interfacing the CMCC with other GSA systems and to automate vehicle assignments and nationwide dispatch services.

Office of Information Resources Management

Item: Replacement of Xerox 1200 Page Printers

Obligations:	1984	1985	1986	1987	1988	1989
	1,200	1,200	1,200	1,200	1,200	1,200

Description: Xerox 1200 Page Printers are out of production. The vendor has announced that he will not maintain the machines past FY 1983. Replacement cost of $100k per month (lease is anticipated) will be offset by $42k per month, the current cost of maintenance on the 1200's.

Item: Recurring Commercial Services for the Office of GSA Information Services.

Obligations:	1984	1985	1986	1987	1988	1989
	6,148	6,494	6,494	6,494	6,494	6,494

Description: Provide for on-going commercial expenditures in the areas of ADP equipment lease and maintenance.

Item: Federal Domestic Assistant Programs

Obligations:	1984	1985	1986	1987	1988	1989
	230	970	590	620	640	665

Description: Cost for the collection of data, maintenance of data base, and the publishing of the catalogue on Federal Domestic Assistant Programs..

Item: Enhancement of Honeywell 6600 computer resources.

Obligations:	1984	1985	1986	1987	1988	1989
	2,800	3,000	3,000	3,000	3,000	3,000

Description: The upgrade of common-use hardware, software, and communications facilities to enhance the efficiency and cost effectiveness of ADP services.

Consumer Information Center Fund

Item:

Obligations:	1984	1985	1986	1987	1988	1989

Negative

Description:

Federal Telecommunications Fund

Item: Voice Programs - Present Systems

Obligations:	1984	1985	1986	1987	1988	1989
	689,779	736,310	787,390	827,990	868,760	912,198

Description: Provides nationwide governmental telephone service for Federal agencies including local telephone service, the procurement of telephone systems, long distance intercity telephone service, extended service to Alaska, Hawaii, Puerto Rico, Virgin Islands and Guam.

Item: Voice Programs - Telephone Inventory Accounting System (TIAS)

Obligations:	1984	19845	1986	19867	1988	1989
	655	725	775	830	890	950

Description: Provides resources for ADP processing of the Telephone Inventory Accounting System (TIAS). This includes an inventory of telephone equipment for the FT Fund's Local Service Program, periodic inventory updates, and the preparation of bills for local telephone service to government agencies.

Item: Data Program

Obligations:	1984	19845	1986	1987	1988	1989
	34,169	31,657	31,000	30,000	29,000	27,000

Description: Provides for an economical nationwide data communications system and services for Federal Executive Agencies. The $2.5 million decrease for 1985 is expected to result from replacement of the Circuit Switching Network.

Item: Circuit Procurement Program

Obligations:	1984	1985	1986	1987	1988	1989
	2,000	2,000	2,000	2,000	2,000	3,000

Description: Provides for the consolidated bulk procurement of dedicated circuits for Federal agency commnications.

Item: Special Programs

Obligations:	1984	1985	1986	1987	1988	1989
	14,608	22,850	25,135	27,650	30,415	33,455

Description: Provides installation and maintenance services for the communications security (COMSEC) systems, and specialized communications requirements of the Federal executive agencies.

Item: Capital Outlay for Competitive Procurement of Telecommunications Equipment and Security Equipment

Obligations:	1984	1985	1986	1987	1988	1989
	18,800	5,800	562,138	72,225	35,545	30,000

Description: Provides for the purchase of telecommunications facilities and equipment that will result in the least cost provision of telecommunications. Also provides for the purchase of security equipment for Special Programs. Large increases in requirements for appropriated capital for the periods 1986 through 1989 are our best estimate of capital outlay requirements assuming purchase to be the least cost alternative for implementation of the Washington Interagency Telecommunications Systems (WITS) Program and the Aggregated Switch Procurement Program.

Automated Data Processing Fund

Item: Teleprocessing Service Program (TSP)

Obligations:	1984	1985	1986	1987	1988	1989
	97,587	97,712	170,000	106,000	111,000	116,000

Description: Provides central funding for the multiple award schedule contracts securing the widest competition and lowest cost for user agencies.

Item: Federal Data Processing Center

Obligations:	1984	1985	1986	1987	1988	1989
	29,508	33,514	34,184	34,871	35,568	36,280

Description: Provides economical and efficient Federal Data Processing Center (FDPC's) for satisfying agency requirements for ADP service on a Government-wide basis in accordance with GSA's responsibilities under Public Law 89-306.

General Services Administration

Item: Contract Services Program

Obligations:	1984	1985	1986	1987	1988	1989
	75,286	81,391	85,460	89,733	94,220	98,931

Description: Provides economic ADP services to Federal agencies through pooling common requirements under single contracts in given geographic locations.

Item: Lease Program

Obligations:	1984	1985	1986	1987	1988	1989
	800	855	855	855	855	855

Description: Provides a means where by ADP equipment may be purchased through a firm multiyear lease resulting in significant savings for the Government.

Item: Opporutnity Buy Program

Obligations:	1984	1985	1986	1987	1988	1989
	5,300	5,300	5,300	5,300	5,300	5,300

Description: Provides the financial means to take advantage of unique buying opportunitite through amortizing large ADP equipment purchases over their economic life.

National Archives and Records Service

Item: National Personnel Record Center Systems

Obligations:	1984	1985	1986	1987	1988	1989
	614	609	625	646	646	646

Description: Maintain System, implement MIS, replace input equipment, integrate and maintain Military Personnel Records/Civilian Personnel Records registry file system.

Item: National Audiovisual Center Information Systems

Obligations:

1984	1985	1986	1987	1988	1989
150	53	55	58	58	58

Description: Develop, implement and maintain National Audiovisual Center Information System

Item: Presidential Libraries Information System

Obligations:

1984	1985	1986	1987	1988	1989
450	31	33	34	34	34

Description: Develop, implement and maintain.

Item: Automated Systems

Obligations:

1984	1985	1986	1987	1988	1989
100	105	111	116	116	116

Description: Conduct general systems study for an automated system for support of the Office of the National Archives

Item: Office Automation

Obligations:

1984	1985	1986	1987	1988	1989
74	80	85	88	88	88

Description: Develop, implement and maintain office automation systems to support program functions.

Federal Property Resources Service

Item: Mini-Computer System

Obligations:

1984	1985	1986	1987	1988	1989
-	200	50	25	25	25

Description: The purchase and installation of a mini-computer system with its related software to support the national defense stockpile's management information system.

General Management and Administration

Item: CSC Infonet Contract

Obligations:

1984	1985	1986	1987	1988	1989
3,600	3,956	3,979	2,036	-	-

Description: Reacquired Info net computer systems contract expiring in FY 1987.

Item: Optical Character Recognition Equipment

Obligations:

1984	1985	1986	1987	1988	1989
800	2,650	200	200	200	200

Description: Reflect the leasing of OCR's in FY 84 and FY 85 for data entry, purchase and some maintenance in FY 85, and outyear estimates for maintenance contracts.

Item: Systems Redesign and Development

Obligations:

1984	1985	1986	1987	1988	1989
600	1,700	2,700	2,000	-	-

Description: Costs related to the recompeting of the Infonet contract including current system hardware and software upgrading and replacements

Item: Post - CSC Infonet Contract

Obligations:

1984	1985	1986	1987	1988	1989
-	-	-	2,000	4,000	4,000

Description: Estimated costs for contractual services for CSC Infonet contract replacement.

Office of Inspector General

Item:

Obligations:	1984	1985	1986	1987	1988	1989

Description:

Not Applicable

Public Buildings Service

Item: Task Orders

Obligations:	1984	1985	1986	1987	1988	1989
	1,700	8,300	1,700	1,623	1,623	1,623

Description: Task Order Service - Conduct feasibility studies and related analyses to determine which Public Buildings Service policies, programs and/or operations could benefit from data processing, simulation, system modification/enhancement, or other techniques. If feasibility is determined, then task orders are employed to develop and implement system modification/enhancements and new capabilities. The increased FY 1985 costs are required to support the conversion of system software.

Item: PBS Support Project

Obligations:	1984	1985	1986	1987	1988	1989
	4,139	13,437	6,000	6,600	-	-

Description: In Fiscal Years 1983 through 1985, PBS is acquiring new equipment with the capability to support both the conversion of PBS software systems as part of the PBS/IS conversion effort and the nationwide GSA office automation project.

Item: Infonet and Time Sharing

Obligations:	1984	1985	1986	1987	1988	1989
	6,365	7,850	3,000	-	-	-

Description: The Infonet and Time Sharing costs for FY 1984 through 1989 include System A costs and miscellaneous time sharing support for the ADP systems in use by both Central Office and the Regions. Due to the conversion effort, System A is scheduled to be phased out during 1985.

General Services Administration

Item: Lease of equipment

Obligations:

1984	1985	1986	1987	1988	1989
1,361	1,520	1,640	1,770	1,900	2,050

Description: Lease of equipment includes the cost of the four phase equipment as well as the associated telecommunication equipment which supports PBS data entry requirements.

OFFICE OF PERSONNEL MANAGEMENT

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Competitive Replacement of Central Computing Facility

Obligations:

1984	1985	1986	1987	1988	1989
3,900	3,900	3,500	4,000	4,100	4,200

Description: These funding levels will provide for the acquisition (through lease and purchase), maintenance, and system conversion costs associated with competitive procurement of a new central computing capability for OPM. Included in the FY 1985 total is $600,000 in hardware and software improvements needed to modernize the CPDF system. By mid-year FY 1986, the new central computing system should be replacing our current central system and out-year increases for its operation will be largely offset by decreases in current equipment charges.

Item: Retirement System Upgrading and Enhancement

Obligations:

1984	1985	1986	1987	1988	1989
532	802	502	702	902	1,102

Description: These funding levels are to provide for improvements in the annuity roll design in FY 1985, a required recompetition of terminals and peripherals in FY 1986 and will also provide for out-year system expansion to accommodate the continuous growth in the data files.

Item: Staffing System Expansion and Enhancement

Obligations:

1984	1985	1986	1987	1988	1989
1,146	1,314	1,090	895	945	1,150

Description: These funding levels are for the purchase of additional minicomputers for the OPM regions, enhancement and upgrades of the current Hewlett-Packard computer system and upgrade of the Westinghouse Optical Scanners. Replacement of existing terminals at $500,000 per year during this period should result from a contract to be awarded in FY 1984. These acquisitions will support Staffing's central applications processing capability as well as an expansion of regional ADP capabilities.

Item: Automation of Personnel Investigations Processing

Obligations:	1984	1985	1986	1987	1988	1989
	2,396	1,491	385	385	385	385

Description: These funding levels are to provide equipment, maintenance and programming support for full automation of the Security Investigations Index, case scheduling and tracking.

Item: Central Personnel Data File Redesign

Obligations:	1984	1985	1986	1987	1988	1989
	575	1,794	--	--	--	--

Description: A major redesign of CPDF will be undertaken to provide tighter control on agency data submissions, more rapid retrieval of information for critical policy uses and higher levels of accuracy. The funding levels indicated are for planning, software design, and ADP systems enhancement contracts necessary to effect CPDF redesign. As noted above, $600,000 needed in FY 1985 for hardware and software to improve this system is included in the Competitive Replacement of Central Computing Facility totals.

Note: The figures shown in this exhibit are for the total costs associated with each of the items identified as major information technology acquisitions. They do not reflect any of the offsetting savings for the associated program areas which will be realized through the reduction or elimination of existing leases, reductions in staff costs, and other operating efficiencies.

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Departmental Management Working Capital Fund

Item: HUD Teleprocessing Network II (HTN II)

Obligations:

1984	1985	1986	1987	1988	1989
7049	7650	8033	8434	8856	9299

Description: Lease and maintenance of terminal and data communications equipment and services to support nationwide automated systems.

Item: CHUMS

Obligations:

1984	1985	1986	1987	1988	1989
888	1221	1282	1346	1413	1484

Description: Purchase, lease, and maintenance of Headquarters computer equipment for support of CHUMS redirected.

Item: HUD Mortgage Accounting Project (HUDMAP)

Obligations:

1984	1985	1986	1987	1988	1989
5799	4001	4201	4411	4631	4863

Description: Resource costs for timesharing, contractor support, and equipment in support of HUDMAP

FEDERAL EMERGENCY MANAGEMENT AGENCY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Information Resources Management

Item: Interim Mainframes

Obligations:	1984	1985	1986	1987	1988	1989
	2,500	2,500	2,500	1,750	----	----

Description: Lease of two mainframes and regional clusters for an interim capability during the transition to fully distributed survivable data processing system.

Item: National Warning System Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	---	14,000	20,000	30,000	25,000	20,000

Description: Provides limited multi-channel voice recording equipment to replace existing obsolete equipment at the National Warning Center and Alternate National Warning Center.

Phased upgrade of existing terrestrial systems into a more survivable infrastructure using the techniques of low frequency broadcast and meteor burst communications.

Existing warning systems, with their almost total dependencies on leased communications facilities, are outdated and vulnerable. This initiative is a much needed effort to consolidate and update these systems into one efficient, cohesive, and survivable architecture.

Federal Emergency Management Agency

Item: Distributed Data Processing Network

Obligations:	1984	1985	1986	1987	1988	1989
	700	4,000	8,000	6,000	6,000	6,000

Description: Replaces interim mainframes with distributed processing system, integrating all agency data processing under the National Emergency Management System (NEMS).

Item: Washington Area Warning System - Siren Activation system

Obligations:	1984	1985	1986	1987	1988	1989
	500	918	700	500	---	---

Description: A tone-encoded VHF-FM radio siren activation system will promote more reliable control. Radio activation will replace the current system now in use which is unreliable and is affected most adversely during any emergency. Leased line costs have escalated annually and FEMA has no control over the rate or frequency with which these increases occur.

Item: Upgrade of the FEMA National Teletype System

Obligations:	1984	1985	1986	1987	1988	1989
	---	5,700	2,850	500	---	---

Description: Provides for lease system expansion to accommodate the FEMA NEMS mission, by initiating the installation of mini-computer regional switches which will provide the critically needed secure (classified) backbone capility. Phase II will extend the modern secure message capability to the 50-state EOC's, District of Columbia, Virgin Islands, Puerto Rico, and the Canadian terminals.

Item: Upgrade of the FEMA National Radio System

Obligations:	1984	1985	1986	1987	1988	1989
	3,459	9,500	15,000	20,000	20,000	20,000

Description: Replace FNARS equipment of mid-1950 vintage which is obsolete, costly to maintain, and difficult to obtain repairs parts for. Replacement will provide more reliable communications with reduced maintenance. The equipment will provide better frequency stability, reduced floor space, and reduced environmental control. The FNARS will play a major role in FEMA's Direction, Control and Warning Communication System specifically with high frequency radios and satellite communications.

Item: Electronic Switching Infrastructure

Obligations:	1984	1985	1986	1987	1988	1989
	2,500	4,965	3,000	2,500	2,500	2,500

Description: The electronic private automatic branch exchange (EPABX) will provide a modern and flexible telecommunications switching capability, integrating the administrative and emergency requirements of FEMA Headquarters and Regional Offices.

Item: Office Automation Equipment Rental

Obligations:	1984	1985	1986	1987	1988	1989
	650	1,255	1,600	1,800	2,000	2,000

Description: The office automation program will provide for expanded word processing capabilities to effect further cash savings and to begin integration of data for the access and processing, as well as text processing, into the overall system network. FEMA will increase the number of word processing work stations and review existing work positions for potential Tempest requirements. The program provides in FY 85 for acquisition of an electronic mail network using the word processing system as terminals to the network. FEMA's policy includes compatibility of word processors with microcomputers and a requirement to interface with all other FEMA, other government or commercial ADP capabilities.

Item: FEMA-Wide Telecommunications Improvements

Obligations:	1984	1985	1986	1987	1988	1989
	---	610	850	850	800	700

Description: These initiatives encompass a cost-effective upgrade of existing assets to achieve increased effectiveness in a crisis environment. This will be obtained by (1) providing advanced secure record communications terminals designed for maximum interconnectivity and interoperability with surviving systems; (2) enabling existing facilities to utilize all surviving transmission media; and (3) permitting a phased effort to implement modern switching equipment to serve as a survivable infrastructure for government preparedness requirements. The near-term (5-year) initiatives include switched network integration, improved federal-state communications capability, enhanced secure record communications, and satellite and radio communications connectivity.

Item: National Flood Insurance Program

Obligations:	1984	1985	1986	1987	1988	1989
	1,500	1,500	1,600	1,700	1,700	1,750

Description: In 1983 Computer Sciences Corporation was selected in a competitive reprocurement to serve as contractor to service the NFIP beginning in FY 1984. A portion of the contract includes data processing services.

INTERSTATE COMMERCE COMMISSION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Teleprocessing services contract

Obligations:	1984	1985	1986	1987	1988	1989
	1.2	1.0	1.0	1.0	1.0	1.0

Description: Recompetition of the Commission's time-sharing contract in FY 1984.

SMALL BUSINESS ADMINISTRATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Items: Competitive Replacement of Central Computing Faci

Obligations:	CY	BY	BY+1	BY+2	BY+3	BY+4
	1984	1985	1986	1987	1988	198
	1,300	1,300	5,000	1,300	1,300	1,3

Description: Purchase, rental, and maintenance, and support costs associated with procurement of new central computing facility.

FEDERAL HOME LOAN BANK BOARD

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Information Systems Division

Item: Leased Services:

Obligations:

1984	1985	1986	1987	1988	1989
260	315	315	331	335	340

Description: Continuation of Telecommunications Services acquired from commercial vendors

Item: Purchase of Equipment

Obligations:

1984	1985	1986	1987	1988	1989
420	390	200	150	175	200

Description: Increase in processing power/replacement of obsolete items, to accomodate normal program growth

Item: Computer Maintenance

Obligations:

1984	1985	1986	1987	1988	1989
201	230	255	268	281	295

Description: Continuation of maintenance services for the FHLBB computer systems

U.S. SECURITIES AND EXCHANGE COMMISSION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Automated Data Processing Program

Item: Competitive Replacement of a Central Computing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	0	0	0	1,800	320	400

Description: Estimated purchase, rental, and maintenance costs associated with the procurement of a replacement mainframe computer system in fiscal year 1986.

Item: Competitive Replacement of the Agency's Teleprocessing System

Obligations:	1984	1985	1986	1987	1988	1989
	0	250	275	300	325	350

Description: Estimated rental and maintenance costs associated with the procurement of a replacement teleprocessing system facility in fiscal year 1985.

Item: Paperless Filings Pilot System

Obligations:	1984	1985	1986	1987	1988	1989
	0	3,065	2,222	0	0	0

Description: Estimated purchase, rental, maintenance and personnel costs associated with the implementation of the Commission's Paperless Filing Pilot.

FEDERAL TRADE COMMISSION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Systems analysis and programming services contract(s).

	1984	1985	1986	1987	1988	1989
Obligations:	100	165	200	200	200	200

Description: Systems analysis and programming services are procured by the Automated Systems Division and various Commission offices to supplement limited resources available from in-house staff.

Item: Computer services contracts for library data bases.

	1984	1985	1986	1987	1988	1989
Obligations:	180	190	200	220	240	260

Description: The library arranges for Commission staff to use outside computer data bases in support of agency research. These include services such as Westlaw, Lexis, Nexis, Dialog, and Dow Jones News Retrieval.

Item: Computer system hardware and software procurement.

	1984	1985	1986	1987	1988	1989
Obligations:	225	265	200	200	200	200

Description: Acquisition of computer hardware and software to support staff use of the Commission's computer system and other systems. (These figures reflect a maintenance of current level and therefore do not include any major upgrade of current configuration.)

FEDERAL COMMUNICATIONS COMMISSION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: FCC Advanced Computer System

Obligations:

FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
1,547	1,485	1,034	994	994	994

Description: Replacement of the existing Honeywell 66/60 with a more advanced Computer system and distributed minicomputers.

Item: FCC Computer Network

Obligations:

FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
406	554	554	554	250	250

Description: The proposed network would allow the FCC to install a group of minicomputers and microcomputers which would permit the remote processing of information, file transferring and electronic mail. This network is expected to significantly increase the FCC's productivity.

EXECUTIVE OFFICE OF THE PRESIDENT

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of Administation

Item: Facilities Management Contract

Obligations:	1984	1985	1986	1987	1988	1989
	950	2,090	2,299	2,528	-	-

Description: Provides facilities support to the Executive Office of the President Computer Center. A new facility contract will be negotiated when the current one expires on March 31, 1984. The contract will be a competitive procurement to provide services needed for the balance of FY 1984 through FY 1987.

Item: Risk Analysis/Disaster Recovery Contingency Plan

Obligations:	1984	1985	1986	1987	1988	1989
	200	250	-	-	-	-

Description: FY 1985 funds would provide for Phase II of the plan to develop procedures to respond to an emergency situation; to provide backup operations; and, provide an alternative operations strategy in case of disaster.

Item: Rental of one Disk Control Unit, four Disk Drives and a Laser Printer

Obligations:	1984	1985	1986	1987	1988	1989
	-	249	261	274	288	302

Description: Support the lease costs of one Disk Control Unit and four Disk Drives which would provide additional disk storage. Cover the rental cost of a high-speed, continuous form, laser printer which would reduce turn-around and workload pressure as well as ensure back-up capability.

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Assistant Secretary for Management and Budget - Budget Office

Item: #2 - OS Budget Commercial Timesharing

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	310	322	334	347	360	374

Description: BIS allows for the rapid itemizing, tabulating, reporting, and transferring of budget data within the Department, while enabling the Department to comply with OMB and Congressional requests for data. Funding for services is acquired under a timesharing contract that is currently undergoing competitive reprocurement (see Justification of Expenditures).

Social Security Administration

Item: #59 - Disk Space Capacity Increase

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	11,094	12,979	3,700	700	700	700	700

Description: Purchase and maintenance of additional disk space is needed to permit the movement of SSA's tape resident master files to DASD, thereby providing a cost effective method of addressing both current and future disk requirements. The current use of tape resident files adversely impacts the timeliness and accuracy of responses to user requests and ultimately the service to the public. Increasing the available disk space during FY 1984, FY 1985 and FY 1986 will enable the movement of the remainder of SSA's tape based master files to DASD, and SSA will immediately realize the benefits of a more reliable storage media which will reduce the execution time for some application programs.

Item: #25 - Programmatic Software Improvement/Annual Wage Reporting
Earnings System Redesign

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	2,513	10,100	4,000	20,654	6,250	2,875	2,900

Description: The existing SSA programmatic software is extremely deficient in terms of the use of contemporary software and hardware technologies. It is also antiquated, which results in the software being difficult and costly to modify. These funds will be used to transform the software into an asset which provides improved maintainability, flexibility and portability and which permits technological upgrades. One of the major projects supported by this request is the total redesign of the annual wage reporting earnings system.

Item: #81 - Code Compatible Processor Replacement

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	11,600	500	5,200	5,200	500	250

Description: SSA's current system configuration is fragmented and inefficient. Equipment and maintenance is needed to consolidate SSA's computer resources into a smaller number of processors. This item will fund the upgrade of the existing IBM 370/168 systems with Code Compatible Processors which, when linked together, will provide applications accessibility to all systems. In addition, the purchase of new processors will allow for workload expansion and the elimination of backlogs because of their added capacity and power.

Item: #37 - Data Communications Utility

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	955	5,164	18,497	4,444	4,444	4,444	4,444

Description: The implementation of a Data Communications Utility within the SSA environment will make the communications network independent of its terminal and computer communities. This independence affords greater flexibility for network users and designers. This increased flexibility is an important consideration in SSA's planning for a new or enhanced system.

This item includes the purchase of SSADARS concentrators and front end processors to eliminate the increasing potential for frequent and extended outages in the SSADARS network, and to provide the flexibility and expandability lacking in the existing concentrators, and necessary to integrate future requirements into the SSADARS network.

Item: #8 - System Engineering and Integration Contractor

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	9,881	7,200	10,000	6,000	4,000	2,000	2,000

Description: This term is to support those initiatives in the Social Security Administration's (SSA's) Systems Modernization Plan (SMP).

These funds will be used to provide the support of a system integration contractor to assist SSA in planning, managing and giving continuity to the SMP throughout its life cycle.

Item: #17 - Case Control Systems Peripheral Upgrade

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	5,607	2,029	387	387	387	387	387

Description: The case control equipment now in use in the Social Security Administration's (SSA) processing centers is obsolete and deteriorated. The authorization to procure replacement equipment was given in fiscal year (FY) 1983. The FY 1984 request is to provide funds for the government to take advantage of vendor offered opportunity purchases and for optional quantities of the equipment being installed during FY 1983. By taking advantage of vendor offered opportunity purchases, the government can realize considerable savings. Also, if funds are not available for optional quantities, SSA will be forced to expend additional workyears manually performing tasks that could be automated by use of the additional equipment.

Item: #12 - Processing Center Systems Modernization Project (PCSMP)

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	24	16,404	853	769	769	769	769

Description: This item is for the replacement of existing obsolete IBM 360/65 central processing units and associated peripheral equipment in the eight processing centers. The 360/65 systems are technologically obsolete, are prone to frequent failure because parts are 16 years old, and are increasingly difficult to maintain because IBM no longer trains new customer engineers on this very obsolete equipment.

Item: #277 - Disability Hearing Project

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	4,229	818	580	580	580	580

Description: Public Law 97-455, signed by the President on January 12, 1983, requires the Social Security Administration (SSA) to provide a hearing at the first level of appeal, known as reconsideration, in Title II disability determination cases. To support the new hearing process, functions must be implemented to schedule hearings, notify claimants, allow for postponement of scheduled hearings, provide management control over the process and provide for the movement and control of case folders. These functions can only be accomplished through the use of a communications network between regional components, local hearing offices and SSA headquarters. The funds requested in this item will provide the necessary intelligent terminals and data communications network services.

Item: #235 - SSA Debt Collection Action Plan

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	6,111	7,272	7,431	1,500	750	-0-	-0-

Description: The root of SSA's problems in meeting its goals of (1) quickly resolving new overpayments (i.e., determining whether they are collectible) and (2) collecting those overpayments that are collectible is twofold:

1. The most obvious part of the problem is that debt resolution and debt collection are largely manual functions. If the debt resolution and collection functions were automated (i.e., automated notice of overpayment, automated billing and followup and alerts to collections), SSA would achieve the highest possible collections of its overpayments in a manner that is continuously consistent with the agency's policies.

2. The second part of the agency's problem in meeting its debt collection goals is the lack of integrated, standardized or complete systems to support these goals. The existing systems do not meet the needs of the agency in the areas of debt resolution, debt collection, accounting or management information. The implementation of an integrated, state-of-the-art accounts receivable

and management information system which meets all of SSA's debt management needs would ensure the continuous delivery of the system support required at a consistently high rate of speed and quality.

Item: #14 - Magnetic Tape Replacement

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	1,100	1,1000	1,100	1,100	1,100	1,100

Description: Magnetic tape is needed to replace aged and defective tapes which are identified and removed from inventory. The replacement of this tape reduces the rerun time caused by deteriorating and defective tape.

Item: #16 - Systems Engineering Services

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	887	2,370	1,300	800	800	800	800

Description: Systems software and hardware technicians are required to provide ongoing maintenance, system tuning, operating system problem resolution and hardware problem determination and resolution. The required expertise does not exist in-house. Needed services have been contracted and are expected to be continued.

Item: #9 - Logical Application Groups

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	6,250	12,250	16,00	6,000	-0-	-0-

Description: This item supports the software improvement objectives in the Social Security Administration's (SSA) Systems Modernization Plan.

SSA has a very large inventory of computer programs upon which it is entirely dependent in achieving its mission. Over the years, SSA has chosen to solve its overall systems problems by considering hardware and capacity-related components almost to the exclusion of software effectiveness. SSA has translated old manual procedures into software using outdated programming languages, and then subsequently converted line-by-line to COBOL, carrying forward all the inefficiencies of older technology.

These funds will be used to implement new programmatic capabilities and the universal programming language to modernize SSA's software programs.

Item: #63 - Hearing Office Automation

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	9,348	3,637	1,032	1,051	98	98	98

Description: The Hearing Office Automation project has been identified by SSA Management as one of the most important means of improving the productivity of the hearing office staffs. The word processing upgrade which will be accomplished with the funds requested in this item is an essential step towards providing SSA with effective ITS resources to meet the increasing demands associated with current and future hearing workloads. Provisions for a further upgrade of the word processing equipment to incorporate the development of the case control data entry, management information reporting, and data processing functions are included in Item #230 - Hearing Office Automated Information Management System.

Item: #15 - Tape Rehabilitation Facility

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,551	1,181	605	605	605	605	605

Description: In response to an HHS Audit Agency recommendation and continued tape-related operational problems, a contractor-operated facility was brought in-house. The facility provides the capability to clean and evaluate 5,000 tapes per day and reduces job reruns caused by tape-related abnormal terminations. The requested funds will permit the continuation of this facility at the required level.

Item: # 7 - Teleprocessing Services for Program Operations, Management Information System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	3,099	2,750	2,750	2,750	2,750	2,750	2,750

Description: The Social Security Administration's (SSA) Management Information System (MIS) is housed on the in-house UNIVAC and on the Computer Science Corporation's (CSC) vendor operated teleprocessing system. SSA contracted for teleprocessing services due to the lack of in-house capability (the existing UNIVAC system is overloaded), and the 5-year contract for teleprocessing services with CSC expires on March 31, 1985. SSA's need for management information has continued to expand since 1978, and continued growth in the future is expected.

This request for funds is for the continuance of SSA's contract with CSC through March 31, 1985. This will enable the Office of Management, Budget, and Personnel to meet its objective of providing complete and timely management information to users throughout SSA. In addition, the contract for teleprocessing services will be recompeted during fiscal year 1983-84 to provide uninterrupted service for an additional 5-year period (converting to an in-house system is not viable or feasible for at least 4 years).

Item: #48 - SSA Field Office Automation

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	2,300	5,557	18,644	41,974	41,747	41,747	41,747

Description: With the advent of the Systems Modernization Plan (SMP), a strategic plan was established for modernizing SSA's information systems. The local intelligence applications became part of the SMP. In developing the SMP and integrating existing activities into it, it became apparent that broader online programmatic processing capabilities were needed. Furthermore, while locally based equipment could support office management functions; e.g., word processing, client scheduling, and supply inventory, it would be inadequate, very costly and require too much lead time to support programmatic needs. Moreover, this greater need for programmatic support had to be tied to other SMP programs, such as Software Engineering, Capacity Upgrade, Data Base Integration, and Data Communications Utility. As a result, the technical approach now favored is to take advantage of the increased capacity of the new communications host processors and the capabilities of the data communications utility. Providing field office automation as part of this approach results in lower costs, greater flexibility, and faster implementation while still satisfying known user requirements. Also, this integrated approach provides the capability of migrating to distributed processing should that be needed in the future. The end result will be transparent to the field office user. They will get the same capabilities that they expected under the original technical approach for local intelligence.

Item: #234 - Multi-Function Terminal Capability

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	121	529	162	162	162	162	162

Description: The workloads processed on Test Time Sharing Facility (TTSF) have impacted system responsiveness to users. All non-programmatic workloads have been migrated to other mainframes in order to reduce response problems. No communication link now exists between the TTSF terminals and the systems on which the data resides because the terminals are hardwired to particular systems. The requested equipment and software would enable existing terminals and those procured in the future to be linked to any system housing required data.

Item: #227 - Processing Center Claims Module Automation

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	1,430	1,218	987	1,209	172

Description: In acquiring the additional SSADARS terminals, the program service centers (PSC) will be replacing some intelligent ENTREX terminals with dumb terminals. To continue their operation without increasing workpower or reducing accuracy, the computing capabilities must be replaced. This project will allow SSA to develop and implement local computer applications for the claims modules within the PSC's.

Item: #57 - SSADARS Additional Quantities

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	5,835	6,712	1,514	1,625	1,752	1,899

Description: SSA is requesting funding in order to obtain additional quantities of SSADARS terminal and modem equipment. This equipment is needed to meet the requirements of several field components. Failure to obtain sufficient SSADARS equipment for processing modules and supporting components will force continued reliance on equipment that is not commensurate with the state-of-the-art or an enhancement to SSA's overall systems processing.

Item: #205 - Office Automation

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	6,790	12,585	8,861	5,908	4,351	3,930	2,465

Description: In attempting to accomplish their overall objectives, SSA executives and managers are forced to spend a large part of their time performing non-managerial activities. Often, their time is spent attempting to manually locate information in numerous paper files and data bases residing on various non-integrated pieces of hardware. Clerical staff experience productivity loss due to the volume of documents needing to be retyped. The clerical process may be repeated for each management level involved in the approval process. The lack of automated document manipulation is causing many SSA components to waste valuable human resources.

The Office Automation system proposed in this item will help alleviate these problems through the use of electronic mail, executive support functions (such as correspondence tracking), editing, and file management. This sytem will benefit SSA by reducing labor costs, providing the ability to handle increased workloads and improving the quality of the services provided.

Item: #230 - Automated Information Management System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	304	790	342	342	342	342	342

Description: These funds will be used to provide SSA's Hearings and Appeals components with integrated data processing and telecommunications capabilities. Automation of the process by which management information is gathered and distributed, enhancement of word processing capabilities, and refinement of the data entry process will all contribute toward increased productivity which will facilitate greater control of program administration costs while meeting public service goals in the future. This proposal represents an extension to the Hearing Office Automation project (Item #63).

Item: #64 - Finance Control System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	773	66	66	66	66	66

Description: These funds will be used to automate the SSA administrative payment process. The proposed system will use automated micrographic retrieval equipment to reduce the work-years presently expended in the manual filing and retrieval of 5 million documents. In addition, the system will employ a minicomputer having the same data base whch is used for automated microfilm retrieval to mechanize voucher examination, create an automated payment tape and perform cash management. The system will also be used to automatically generate accounting transactions for the Financial Accounting System as a by-product of payment scheduling.

Item: #118 - FEDSIM Services

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	100	250	225	175	100	100	100

Description: The SSA Central Office is charged with the responsibility of monitoring the utilization of the existing computer systems. This includes managing the technical aspects of the systems operations to insure that the systems are used effectively and efficiently, analyzing service level requirements and workflow, and establishing operational performance standards for each of the major production systems (RSDI, SSI, Admin/MI/STAT, etc.). Since SSA presently does not have the expertise or staff to perform these responsibilities, it plans to utilize the expertise and services of the Federal Computer Performance Evaluation and Simulation (FEDSIM) through an interagency agreement for this purpose.

Item: #268 - New Computer Center Operational Procedure Documentation

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	800	800	-0-	-0-	-0-	-0-

Description: The prevent procedure obsolescence, up-to-date, complete and accurate procedures and related documentation are vital to uninterrupted processing in the period when we are perfecting procedures in the New Computer Center (NCC) with its vertical array concept. These funds will be used to establish and maintain procedures for better control and timeliness of the vital adjuncts to the actual computer operations.

Item: #80 - Remote Job Entry (RJE) Equipment Replacement

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	472	3,935	100	100	100	100	100

Description: The existing RJE work stations on the Test/Time Sharing Facility (TTSF) do not meet the requirements of the user community. This has resulted in excessive turnaround time, delays in the completion of developmental projects and emergency workloads such as the BRI and other legislative initiatives. The procurement of the RJE equipment was scheduled for FY 1983 but was unable to be completed due to procurement leadtimes. The request, if approved, will enable the procurement to be awarded early in FY 1984.

This procurement will improve TTSF service which will likewise better support the system development requirements of the user community.

Item: #42 - Time Sharing

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,015	1,432	1,432	1,432	1,432	1,432	1,432

Description: To meet its data processing needs, the Social Security Administration's (SSA), statistical management components must rely on a variety of sources. The management information facilities currently available within SSA are not sufficient to meet these needs. While these components use a substantial portion of SSA's ITS resources, these facilities are currently saturated and unable to absorb additional work. This request is to provide SSA's statistical management components with funds to continue to receive ongoing time sharing and data sharing services through commercial sources and interagency agreements in support of Social Security programs.

Item: #28 - Automated Suspense Finder System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	590	248	248	248	248	248

Description: A large amount of effort, time and money is constantly devoted by the Social Security Administration (SSA) to the various aspects of accrediting earned wages to individual earnings records. Wage items cannot always be identified as belonging to a specific individual and this list of unidentified items has grown to over 140 million items. Although some of these unidentified items have been converted to magnetic tape, the majority still remain on microfilm and when an attempt is made to locate a claimant's proper earnings from these files the search often takes upwards from 6 months to a year and is not always successful. The funds requested by this item would be used to develop and implement an automated unidentified (suspense) finder system which would provide the capability to credit these millions of earnings items to the individual records involved. This would eventually evolve into an online direct access system that would allow clerical employees and district office personnel to access, identify, and clear suspense items with evidence suplied by the individual wage earner.

Item: #251 - Replacement of Batch Processing Work Stations

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	825	60	60	60	60	30

Description: The condition of the existing batch processing work stations renders them inadequate to meet current and projected requirements. Current problems range from the inability to connect to the host computer to insufficient print speeds. The batch stations now used are no longer manufactured.

The requested equipment will significantly reduce downtime and errors, enable larger user print files to be handled at the batch site, and reduce the amount of operation system code developed to handle rerouting of large print files.

Item: #44 - Case Control and Management Reporting System - DDS

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	654	1,667	1,155	1,174	1,200	1,216	1,233

Description: The Social Security Administration (SSA) approved development of a prototype ADP case control and management information system by the General Services Administration (GSA) in 1977, and reaffirmed this commitment in 1980. The system is being developed to support California Disability Determination Services (DDS) case control and recordkeeping functions in such a way as to allow extension of that system for use by other State DD's. Once the system is operational in California, plans are to proceed with extension to at least four other State DDS's in need of the automated process. Through inclusion of these states, more than 21 percent of the national disability insurance claim workload will be under automated control by this system. The funds requested for fiscal years 1984 through 1989 will provide for extension of the system to other states as well as maintenance of the California portion.

Item: #29 - Program Development and Test Facility (PDTF)

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	92	362	2,430	1,156	1,051	955	867

Description: The SSA Systems Modernization Plan (SMP) documented many of the software development problems existing within the agency. Because of time and resource constraints, legislated program changes have generally been implemented by software modification rather than redesign.

Consequently, the software, which dates back to the 1960's has been inefficient and requires greater hardware resources to run. Most of the software is tape oriented and largely undocumented.

The PDTF is an integral part of the SMP and will consolidate all SSA computer resources now used for software development and testing. This facility is intended to isolate program development from the production environment, support program development for a multi-vendor production environment, increase productivity, ensure program reliability and enforce standards and controls.

Item: #262 - Productivity and SMP Processor Software Tools

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	475	400	400	-0-	-0-	-0-

Description: Presently, within the Social Security Administration, there is no comprehensive, well-documented approach to software development. Existing software is old and difficult to maintain. Software development/maintenance efforts are labor-intensive, resulting in low programmer/analyst productivity. The number of systems personnel within the agency is inadequate to guarantee workload maintenance, which results in the potential for critical operational breakdowns.

The software tools requested in this item will provide contemporary industry-recognized methodology for the system life cycle and take advantage of modern hardware/software technology. These tools will also increase productivity, reduce application software maintenance/development costs, enforce adherence to standards and ensure program reliability.

Item: #54 - Assistive Devices for the Visually Impaired

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	297	474	452	393	415	436	458

Description: Section 501 of the Rehabilitation Act of 1973 (amended in 1978) stipulates that Federal agencies have an affirmative responsibility to provide reasonable accommodation to handicapped employees, including the acquisition of special equipment to meet their needs. Since 1969, the Social Security Administration has initiated a serious effort to hire qualified blind persons. Problems which ensued were the necessity of training visually-impaired Claims

Representatives and helping them to work in a more independent manner.

This request for funds to purchase Versa Braille systems will become an essential part of training visually-impaired Claims Representatives. In addition to providing reasonable accommodation to handicapped employees by making it possible for them to work more independently, the purchase of this equipment will reduce the amount of time that sighted employees now spend in reading written communications to the visually impaired Claims Representatives.

Item: #60 - Optical Storage Pilot

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	60	1,340	840	740	340	340

Description: While SSA currently is operating primarily in a tape-oriented environment, the Systems Modernization Plans calls for a conversion to a DASD on-line environment. As a result, most of the major SSA files will be converted to DASD (IBM-3380) storage within the next few years. However, it is projected there will be a continual increase in storage density for random access devices and that most likely, optical and then holographic storage will displace the magnetic disks. Some of the immediate advantages of optical storage are faster access and transfer rates, greater storage per square feet at a cheaper price, and unlimited back-up capabilities.

This item would allow the Office of Systems to conduct a pilot study to determine the feasibility of optical storage usage at the Social Security Administration.

Item: #207 - Advanced DASD Backup Capability

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	1,260	598	718	846	999	1,183

Description: As SSA converts more of its master files and working data sets from magnetic tape technology to disk (DASD) storage devices, the problems in providing backup copies of the data sets residing on disk become more severe. While DASD technology offers significant advantages to SSA in terms of reducing labor intensive tape operations, allowing immediate data accessibility and reduced processing time, it also makes the data vulnerable to destruction on a large scale.

The requested equipment will allow SSA to provide DASD file backup and recovery operation that is more consistent with the demands of on-line DASD processing.

Item: #39 - Programmable Magnetic Tape Terminal (PMTT) Purchase

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	15	1,345	95	100	110	121	133

Description: The current contract with General Telephone Electronics/Information Systems (GTE/IS) expired in November 1982. The Social Security Administration (SSA) plans to competitively procure new modems and terminals. These procurements will improve the effectiveness of ITS supported operations and will allow improved system design which will eliminate many of the limitations in the current system. The new resources will improve operations in terms of the standardization of data collection, entry and retrieval functions, and will enhance the timeliness and acceptability of information required to assure the quality of SSA processes.

Item: #66 - Data Access System (DAS)

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	76	802	147	147	147	147	147

Description: Primary responsibility for measuring and improving agency performance within the program areas rests with the Social Security Administration's Field Assessment Office (FAO) which support and evaluate regional performance. In order to allow the FAO's to better perform their mission, the DAS was designed to provide analysts with access to Quality Assurance and program integrity data. Procurement activity associated with the DAS began in fiscal year 1982 with the acquisition of intelligent terminals for the FAO's and a central office site. This request for funds is to lease additional disk storage and additional dumb terminals and completes the procurement activity for the DAS.

Item: #41 - Social Security Supply (SSS) System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	311	380	404	288	243	279	252

Description: The Social Security Supply (SSS) System is an ITS supported logistics management system which provides for both expendable and nonexpendable type material(s) control and accountability. The SSS system was developed in response to Federal Property Management Regulation (FPMR) concerning the accountability, accuracy and timeliness of the supply system. Increased workloads have developed because of reorganization assignments, mandated administrative and regulatory requirements and changes in scope of customer support needs.

This project is a logical continuation and evolution of the SSS system which has been underway since 1975-1976. Funds are requested to upgrade the existing basic SSS system through acquisition of additional Key Entry Processing (KEP) stations with printers, Remote Job Entry (RJE) terminal upgrades for additional memory, addition of disk drives to provide additional on-line data storage capacity, and conversion of leased terminals to purchase. Also, technical support is required to provide services which are presently not available from in-house staff.

Item: #62 - Data File/Storage Media Management System

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	120	690	100	100	100	100	100

Description: Since the existing Tape Library and Control System was designed in 1970, environmental and operational changes have redered it inadequate to meet current requirements. The requested funds will enable a system to be implemented which will meet current requirements of handling a substantial volume of tapes, a geographically dispersed area of tape movement, station-to-station control and increased security considerations.

Item: #19 - Computer Based Training

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	840	740	-0-	-0-	-0-	-0-

Description: In 1982, training personnel in Social Security Administration (SSA) field offices and program service centers cost $74.3 million. In addition, there was lost productivity because of claims processing errors. Experienced SSA field personnel had to use part of their time to update and prepare classroom lessons.

The purpose of this project is to develop a means of delivering training directly to training centers in both field and central office locations via distributed computer systems. The funds in this item will be used to conduct a pilot study to better define system requirements and perform the required sizing estimates to determine if the full-scale system should reside on the SSADARS network or on one or more of the various office automation systems currently being planned.

Item: #10 - File Restructuring

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	1,500	6,947	6,195	5,000	-0-

Description: This item supports one of the overall objectives of the Data Base Integration Program in the Social Security Administration's (SSA) Systems Modernization Plan. That objective is to restructure and integrate files to eliminate data redundancy and improve efficiency. The restructuring of the files will involve converting cleaned-up and standardized files to the new data base design for efficient use in the direct access mode.

The requested funding is for consultant services and additional DASD to run parallel operations during the file restructuring and software redesign phases of the program.

Item: #270 - Mass Storage System for Production Environment

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	748	-0-	909	80	80	80	80

Description: These funds will be used for the procurement of a Mass Storage System (MSS) in compliance with the Social Security Administration's (SSA) Systems Modernization Plan (SMP) to automate the labor intensive direct access storage device (DASD) backup operations and reduce the delay associated with intermediate tape file handling. This MSS for SSA's production environment is a continuation of the efforts already in progress which call for a mass storage device to be implemented in SSA's testing environment. It is estimated that the benefits of the MSS will outweigh the system costs within the second year of operation.

Item: #20 - Portable Terminal Project

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	1,722	229	229	229	299

Description: At present, SSA has contact stations in many areas that are remote to district and branch offices (DO/BO) for the purpose of servicing the public living in these areas. The personnel at these stations must process all claims and inquiries manually since there is no direct access available to the SSADARS network, as there is in the DO/BO. This item would allow SSA to place lightweight portable terminals in the contact station in order to provide direct access to the SSADARS network. This project, which is presently being pilot tested in 20 district offices, will improve client service by providing immediate and accurate answers to inquiries and eliminate unnecessary recontacts.

Item: #281- District Office Remittance Process

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	2,000	650	650	650	650

Description: SSA is requesting funding for equipment to be placed in the district offices to improve the remittance process. A pilot study, scheduled to run during April, May and June 1983, has been designed which will test eight variations of remittance control and also test select equipment to support the cashier function. There are two levels of equipment that SSA will be testing--the basic level equipment and the sophisticated level equipment, and the decision for using or not using this equipment will not be made until after the pilot results are known. This funding request is based on the costs for the basic level equipment.

Item: #6 - Administrative/Management Information Computer Facilities Replacement

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	3,203	5,600	5,045	7,045	1,245

Description: The current Social Security Administration (SSA) time-sharing facility is inadequate to meet the existing, as well as the projected, administrative, statistical and management information needs of the agency. This lack of computer capacity will cause SSA management to operate in a "catch-up" mode and cause the agency to defer projects that have a sizeable, long-term impact on its operating costs. In order to supplement the existing system, SSA is spending in excess of $4 million per year for outside time-sharing service.

The solution to this problem is a consolidated procurement to provide SSA with adequate computer capacity for administrative and statistical systems for central office, regional office and program service center users.

Item: #232 - Program Center Word Processing Systems

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	1,475	4,887	541	541	541

Description: This project will allow SSA to replace 61 FPS word processing systems in the processing centers (PC) with more advanced word processing systems now being developed. The current word processing equipment has been used by the PC's since 1978. The system's life was 5 years, and the contract is scheduled to expire in May 1984.

Item: #373 - Transition to New Systems Modernization Plan (SMP) Equipment

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	3,160	-0-	-0-	-0-	-0-

Description: Over the next 18 months to 3 years, SSA needs to support SMP acquisition with hardware and systems software specialists who are expert in equipment installation, acceptance and implementation. The Social Security Administration (SSA) does not have the in-house expertise to support this activity. These funds will permit SSA to contract out the installation support needed for SMP hardware installation. This contract will be a "whole buy" contract with an 8A firm.

Item: #376 - Four-Phase Equipment

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	4,779	-0-	-0-	-0-	-0-

Description: These funds will be used for purchase of additional storage and memory for the Four-Phase word processing equipment in the Processing Center (PC) and for conversion from lease to purchase of the existing installed systems. A feasibility or pilot study was completed on August 31, 1983, for an upgraded Four-Phase IV/90 Shared Logic Word Processing System. Performance requirements for testing were based on the Request for Proposal (RFP) and t experience gained over the last 5 years. The upgraded Four-Phase System has performed beyond RFP requirements and will provide the capability to address new and increasing workloads.

Item: #407 - Terminal Code Converters

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	9,000	-0-	-0-	-0-	-0-

Description: In order to facilitate the implementation of the Data Communications Utility (DCU), it will be necessary to obtain code converters. This equipment will allow the current field office terminals to interface with the various components of the DCU.

Item: #389 - OSM Management Information System (MIS)

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	1,655	-0-	-0-	-0-	-0-

Description: This request is for contractor resources to develop an integrated Management Information System (MIS). This MIS will provide support to SSA's management for the control of the ITS budget, the ITS procurement process and greater efficiency in the utilization of systems manpower resources.

Item: #5 - SSADARS Terminal Purchase

Obligations:	FY 83	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	-0-	20,000	895	895	895	895

Description: It is economically advantageous to convert the remaining 1,000 SSADARS terminals from lease to purchase. The payback period is approximately 21 months. This purchase is planned for early fiscal year 1985.

Alcohol, Drug Abuse and Mental Health Administration/ Public Health Service

Item: Information Management System/Grants

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	243	242	210	215	220

Description: A competitive procurement for programming services is planned for FY'84 for the first module of an integrated ADAMHA administrative information management system.

Planning is underway for an agency-wide (grants management) information management system using data base technology. The basis for this planning is that the administrative information systems in the Agency are approximately 10 years old. The technology envisioned includes development of an integrated data base with distributed capabilities at the various organizational levels.

A user satisfaction survey of the Agency's administrative systems has been conducted and a concept paper has been prepared. An Agency management group has approved the system concept with an objective of having a prototype core system operational within 18 months. The system will be implemented in stages, with grants management the first module. Life cycle management methods will be fully utilized.

Item: Drug Abuse Warning Network System - (Project DAWN).

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	2,579	2,707	2,767	2,842	2,923	3,008

Description: The Drug Abuse Warning Network (DAWN) system, formerly operated and managed by the Drug Enforcement Administration (DEA), became a NIDA system in FY'82. Since 1971, funding for the system has been shared 50/50 by NIDA and DEA. The contract was negotiated and managed by DEA, and the system has been considered a DEA system by DEA, NIDA, the contractor, and the reporting hospitals and medical examiners. By interagency agreement, NIDA transferred approximately $1,000,000 each year from its programmatic funds to support its obligation to the DAWN system. DEA funding was a line item entry in its budget. The Office of Management and Budget (OMB) eliminated this line item from the DEA budget in FY'82, and increased NIDA's programmatic budget by a like amount, with the understanding that NIDA would operate the DAWN system. These decisions were made in FY'81 by OMB during joint DEA, NIDA, and OMB meetings. For FY'82, NIDA operated the DAWN system without making any substantial modifications in its design or in its operation. The DAWN system collects and process drug-related episode reports from approximately 817 hospital emergency rooms and 85 medical examiners across the United

States. This is done on a voluntary basis, for there is no directing legislation. These facilities report approximately 120,000 drug abuse episodes each year. This system has been in operation for 10 years, and has provided a constant flow of information.

Item: Acquisition of Updated Internal/External Telephone System for St. Elizabeth's Hospital

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	2,500	-0-	-0-	-0-	-0-

Description: The current internal/external telephone system at SEH is over 30 years old. This system cannot support the increases in telephone usage experienced by the Hospital in the past several years. The Five-Year Budget Plan reflects a one-time cost acquisition of an updated internal/external telephone system of $2.1 million plus $400,000 in installation costs. The Hospital is currently investigating the feasibility of alternatives to direct purchase but has not completed these investigations to the extent necessary to arrive at five-year budget estimates for alternative acquisition strategies. If one-time purchase is not the selected method, the estimated cost of the overall system will be spread over years between 1985 and 1989. The current higher plan includes no estimates for additional acquisition of telephonic equipment, but does prove a gradually escalating maintenance cost in the remaining years of the budget plan.

Centers for Disease Control/Public Health Service

Item: Combinations of Laboratory and Computerized Equipment, Software, Commercial Services for Epidemic Services

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	100	100	100	100	100

Description: To support CDC Program effort to provide immediate correct response to emergency health situations. A study will be made to determine the best combination of automated laboratory equipment, other computer equipment, software, and ADP services to provide the information necessary for this function.

Item: Automated Laboratory Instrumentation, General Data Processing Equipment for Infectious Diseases

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	900	100	100	100	100	100

Description: To support research into hybridoma molecular biology technologies for new and more efficient diagnostic testing techniques.

Item: Computer Center Upgrade

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	450	450	450	450	450	-0-

Description: Replacement of IBM 370/158 with IBM 3083 or equivalent.

Food and Drug Administration/Public Health Service

Item: Field Information System - Purchase of Equipment

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,100	100	100	100	100	100

Description: Procurement of hardware to complete the Field Information System basic configuration. Purchases in 1984 constitute general purpose processors to upgrade and enhance the basic FIS capabilities.

Item: Contract for Design, Development, and Implementation of Information Systems at NCTR

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,400	1,500	1,600	1,750	1,862	2,050

Description: The contract will be used for design, development, implementation, and documentation of the various systems which make up TDMS, and consolidate them into the TDMS. Continued development of the Toxicological Data Management System is essential to support the National Toxicology Program as well as the basic regulatory research mission of NCTR.

Department of Health and Human Services

Item: Contract for Data Processing Services at NCTR

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	870	900	925	950	975	1,000

Description: This contract provides all necessary services and personnel to assemble, install, check-out, maintain and operate all equipment necessary to support local batch, remote batch, interactive applications processing and interactive program development. This contract provides data processing operations of mini-computers, RJE terminal system and optical scan readers, card punch machines, key-to-tape machines, and other associated equipment as well as production control.

Item: Purchases of Hardware for TDMS at NCTR

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	350	380	400	420	450	480

Description: This contract is for purchase of hardware necessary for the phased implementation of the Toxicological Data Management System. This hardware will provide for the consolidation of existing subsystems into TDMS and will extend the usefulness of the mainframe computer in place at NTCR. Purchases in 1984 will be primarily for replacement of terminals which are now out of date.

Item: Computer Center Upgrade

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,683	1,683	1,683	1,683	1,683	-0-

Description: Replacement of two IBM 3033's with IBM 308X class machines.

Health Resources and Services Administration/Public Health Service

Item: Contract for Expansion of the Area Resource File (ARF) System

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	378	-0-	-0-	-0-	-0-	-0-

Description: The Area Resource File System consists of a wide variety of data items organized into three major and many minor computer files, that are used for the analysis of health manpower supply and requirements, health manpower shortage area designation, health planning, and a number of related technical analyses, including those of health care system interaction and health status causation. The contractor shall maintain, update, and develop the ARF System to make it more useful for these purposes and shall investigate, design, and prepare methods of making the resources of the ARF System more available and useful to health manpower planning.

Item: Indian Health Service ADP Master Plan Implementation

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	1,000	1,000	1,500	800	-0-

Description: The ADP Master Plan implementation is a dedicated effort to determine Indian Health Service ADP requirements, document existing systems, review and analyze existing systems relative to the requirements, evaluate other systems in the commercial and Government sectors which might have application to fill IHS requirements, and integrate the results of all of these actions into a total IHS system design and implementation effort. Existing IHS personnel and resources will be used where possible to perform these services, however, it is anticipated that a large percentage of the effort will have to be performed through the use of commercial contractors.

Item: Indian Health Service Eligibility System

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	2,445	800	300	312	325	338

Description: The Health Services Eligibility System (HSEES) is an automated system designed to register Indian people into the Indian Health Service's patient care delivery system. Once enrolled into the system, eligibility for services will be determined at each patient's encounter at an IHS facility so that proper medical care can be delivered. All of the systems design, development, and implementation work will be done by inhouse staff. Additional ADP equipment will be required at each of the more than 90 IHS Service Units.

Department of Health and Human Services

Item: Computer Center Upgrade

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	983	54	57	60	64	68

Description: Upgrade of the Indian Health Service Data Processing Service Center from an IBM 370/145 to an IBM 4341, Group 2, with eight additional disk drives, a high-speed line printer, new software operating system, and expanded telecommunications capabilities.

Indian Health Service/Public Health Service

Item: Alaska PCIS ADP Services Contract

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	900	900	900	-0-	-0-	-0-

Description: The Alaska Patient Care Information System (PCIS) is an automated management information system which is operational for the IHS and the State of Alaska encompassing approximately 200,000 patients. The primary purpose of PCIS is to support direct patient care, however, the system also supports Medicare/Medicaid billing and other management applications. ADP services are required under a contract mechanism to provide data entry keytaping and coding, form processing, quality control, data base management, training, computer systems support, microfiche production, system development, data security, and general management support. The majority of the computer processing for the Alaska PCIS is done at the IHS's Data Processing Service Center, however, the State of Alaska's computer processing is done under the same contract. IHS and the State have a joint PCIS program with joint funding. ADP services under contract must be used because the IHS does not have sufficient staff or resources to provide the services inhouse.

National Institutes of Health/Public Health Service

Item: Molecular Graphics

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	690	191	191	391	191	191

Description: The imaging system for molecular graphics will provide capabilities for modeling molecular structures and consist of Apollo processor, ST-100 array processor, Lexidator processor and Evans & Sutherland color line drawing display systems. System will be located in Room B-61, Building 12A.

Item: PDQ Cancer Information System

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	374	80	81	83	84	85

Description: Use and adaptation of NCI computer equipment, the Sperry-Univac hardware and operating system, and the general purpose ATLAS software to provide full operation of the PDQ2 database production system. This sole source procurement will initially be conducted at the contractor's facility and then the installation will be moved to the R.A. Bloch [illegible] Cancer Information Center (NIH Building 82) at 9030 [illegible] Georgetown Road, Bethesda, Maryland. PDQ is being developed to be a fully integrated, computerized knowledge base providing rapid retrieval of cancer treatment information. The PDQ database will be distributed through the National Library of Medicine and multiple commercial information vendors such as AMA/GTE, BRS, etc. on a variety of distribution systems.

Item: The Clinical Center Medical Information System

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	4,200	1,500	1,000	800	800	800

Description: The Clinical Center Medical Information System is used in the direct support of patient care within the Clinical Center. Medical Orders are entered at display terminals by doctors and nurses, requistions for services are automatically printed in service departments, results are entered in service departments when available, and print at the patient care location. This system was installed to improve the efficiency and save the time of professional medical care staff at the Clinical Center by reducing the clerical workload, to provide more care of the same or better quality without proportionate staff increases, to better organize and codify medical research protocols used for patient studies, and to better manage the resources required to operate a large clinical research hospital. This system was acquired under a competitive procurement in 1975, has been modified extensively during the past six years, and is essential to the conduct of patient care and clinical research within the Clinical Center.

All of the computer hardware including specialized terminals and communication equipment is government-owned. The computer software is licensed on an annual basis. Detailed studies are in progress to determine the most appropriate system requirements for the support of patient care and clinical research through the late 1980's.

National Center for Health Statistics/Public Health Service

Item: DHIS Contract for MCUES Processing

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	200	200	640	2,640	2,920	2,500

Description: This is for the coding, keying and editing of the questionnaires obtained in the Medical Care Utilization Expenditures Survey.

Item: DHIS and DDP (DPB) Contracts with the Bureau of the Census

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,466	1,566	1,566	1,566	1,566	1,566

Description: These activities involve the computer selection of the DHIS sample households, calculation of sample inflation weights, and the Jeffersonville coding of vital statistics records.

Item: Division of Vital Statistics Contracts with the States

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,520	1,520	1,520	1,520	1,520	1,520

Description: These contracts are for the purchase of vital statistics in machine-readable form for the vital statistics program and the National Death Index.

Item: Acquisition of IBM S/3083 Central Processing Unit

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	260	260	260	260	238	-0-

Description: Replacement of IBM 370/158 with IBM 3083 or equivalent at NCHS computer center.

Item: NHANES - Automation of Medical Equipment

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	-0-	878	778	-0-	-0-	-0-

Description: Automation of Medical Equipment in the Mobile Examination Centers. Micro computers to capture data at interview source and during examination at the Mobile Examination Center. Software development for the program to conduct interviews. All equipment to be purchased through competitive bid. All medical equipment will be located in the MEC. The micro computers will be located either in the MEC or hand carried by the interviewers.

Public Health Service

Item: CBX for the Parklawn Building

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	4,697	197	197	197	197	197

Description: Purchase of CBX and related equipment to defray some of the increased telecommunications costs resulting from the AT&T divestiture.

Health Care Financing Administration

Item: Project to Redesign Information Systems Management (PRISM)

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	4,700	7,300	7,900	7,700	2,500	0

Description: PRISM (formerly A-109) is a program of short-and long-range efforts to improve HCFA's information systems and ADP support environment. HCFA's approach under PRISM is to evaluate alternative designs for information systems, develop and test prototype information systems proposed within HCFA and by the private sector, and to use private sector consultant/contractors to develop alternatives and provide appropriate technical assistance.

Item: Prospective Payment

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 89
	1,000	600	-0-	-0-	-0-	-0-

Description: The passage of the Social Security Amendments of 1983 has made it necessary to prepare for implementation of improved program management and monitoring systems. The projects to be undertaken include a major project for Medicare Part A/Part B integrated utilization review and a pilot project to develop a physician practice-oriented data base for use in evaluating the feasibility and effects of Diagnostic Related Group (DRG)-based physician reimbursement under Part B of Medicare.

Office of Human Development Services

Item: Replacement Procurement for All AOS Equipment (1)

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 87	FY 89
	-0-	-0-	-0-	-0-	1,340	1,400

Description: The current Automated Office System will be seven years old at this point and completely outdated by technological advances. The solution will be a complete replacement procurement for all word and data processing and telecommunications equipment.

Item: Departmental Upgrading of Telephone System (2)

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88	FY 88
	-0-	-0-	1,800	50	-0-	-0-

Description: The Department is proceeding with the idea of a third generation CBX being in place by July 1986. To date the Department has not decided if each OPDIV will be assessed for their share of the cost. HDS has allowed for such an assessment if a CBX is processed and is treating it as a major acquisition item.

DEPARTMENT OF EDUCATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of Management

Item: Mini Computer Procurement

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	865	1,740	1,500	1,700	1,800	1,900

Description: This contract will be for multiple mini-computers to serve Department-wide needs for office automation, including correspondence control, data entry and for special processing prior to updating host computer.

Item: Contract for Computer Services

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	4,500	5,025	5,500	6,000	6,500	7,000

Description: This contract is for the processing of Department projects which require computer support. It includes rental of the Department's host computer, all high and low speed terminals and related equipment, data preparation, Xerox and microfilm, microfiche processing and personnel support for the Systems Engineering, System Acceptance, and Production Processing Units of Production Services Section.

Item: Mini Computer Operational Support

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	339	426	453	490	550	600

Description: Provides facilities management and operational support for EDS's mini computer network.

Item: Terminal Acquisition

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	150	200	225	250	275	300

Description: Contract to supply computer terminals to ED user community.

Item: Systems and Programming Procurement

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	2,884	2,769	2,800	3,000	3,000	3,000

Description: This procurement action results in the award of up to four contracts. The term is for one year with two option years. The contracts are used to define system requirements, plan, analyze, develop, and maintain information systems for the Department. Work is obligated on a task order basis. The funding identified above is a composite total for all four contracts if fully obligated.

Item: Contract for Standards and Evaluation Tasks

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	460	440	300	350	550	500

Description: This procurement action results in the award of up to three contracts. The contracts are used to establish, evaluate, and modify data processing standards; to review/evaluate/access/hardware/software products; to conduct special analytical studies in areas affecting the development of the Departments' information systems; and to establis, evaluate and modify the security aspects of the Department's systems. Work is obligated on a task order basis.

Item: Contract for Financial System Data Entry System

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	488	472	472	475	475	475

Description: Lease of proprietary software and maintenance services for a system to perform online data entry, fund control and query.

Item: EDFMIS Requirements

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
500	1,000	500	0	0	0

Description: A series of contracts to evaluate ED's financial accounting requirements, upgrade or replace the existing obsolete system and to clean and convert data bases.

Student Assistance Support

Item: Contract to Process Pell Application

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
9,258	9,500	10,632	11,000	11,500	12,000

Description: The contrat process applications for the Pell awards including the preparation of source documents, computer processing and mailing of award notices. Also, this project provides data, pertaining to applicants to institutions and State agencies.

Item: Title IV Delivery System Design

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
400	2,000	2,000	2,000	2,000	2,000

Description: Implement new Integrated System to streamline the Title IV application processing and disbursement systems to reduce the financial and administrative burden on students, educational institutions and the Department of Education.

Item: Pell Data Preparation

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
2,322	2,420	2,565	2,719	2,882	3,055

Description: Contractor provides data preparation services to support the Pell Grant Program relative to the processing of institutional and recipient source documents for the Pell Grant Program Information and Monitoring system.

Item: System Maintenance for the Pell Program Information and Monitoring System

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	1,400	1,470	1,544	1,621	1,702	1,789

Description: Contractor provides data preparation services to support the Pell Grant Program. These tasks include maintenance; system analysis; system design; computer programming; systems testing and documentation of systems/programs for the Pell Program Information and Monitoring System.

Item: GSL Source Data Preparation and Related Processing Activities

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	1,500	0	0	0	0	0

Description: All source documents must be keyed, verified and pre-edited prior to computer validation and posting. This process, along with other related tasks, such as microfilming, error resolution, etc., will continue to be an intricate part of the GSL/NDSL system.

Item: GSL Quality Control Study

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	1,700	0	0	0	0	0

Description: Conduct a quality control study of the Guaranteed Student Loan payment and accounting function in the interest billing system. GAO and the Department's internal audit agency have provided partial evidence that the interest billing system may be error prone.

Item: Campus Based Management Information System Maintenance and Enhancement

Funding:	FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
	850	670	735	796	857	925

Description: Maintenance and enhancement to the Campus Based System to provide the means for allocating the appropriations for the National Direct Student Loan, College Work-Study, and the Supplemental Educational Opportunity Grants Programs, and provide general management support. System provides a mechanism for automatically posting allocations through the Finance Division and generating the award document for each obligation to Institutions of Postsecondary Education, and numerous management information reports for monitoring program related activities.

Item: Contract for Data Processing Services and Systems Support for the Guaranteed Student Loan and National Direct Student Loan Programs

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
3,549	6,500	6,600	6,700	6,800	6,900

Description: This project provides for computer processing services for the Guaranteed Student Loan Program and the National Direct Student Loan Program. The contractor is responsible for providing the necessary hardware, software, and personnel to maintain the GSL and NDSL system.

Item: Title IV Quality Control Project

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
1,925	3,500	3,600	3,600	3,600	3,600

Description: Campus-Based/GSL Quality Control Study - Stage I
This project is designed to measure payment error rates and to define corrective actions to reduce payment errors for the Campus-Based Programs and the student application process under the Guaranteed Student Loan Program. Title IV - Stage II - This integrated approach will eliminate duplicate quality control efforts, minimized the institutional response burden, reduce cost, etc.

Item: Pell - Alternate Disbursement System

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
1,500	755	764	695	765	869

Description: The Alternate Disbursement System (ADS) has been established as a mechanism for processing Pell Grant awards for those students who have been determined eligible to receive the awards, but the institutions they attend have elected not to act as disbursing agents for the Government. Among the functions to be accomplished are calculation of awards and disbursement of Pell Grant funds, production of microfiche, statistical and management reports, Validation Rosters, Student reports, and correspondence from students and institutions.

Department of Education

Item: Contract to Operate the Multiple Data Entry System

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
566	457	480	504	529	555

Description: Contractor transmits data collected on its financial aid application to the Pell Grant processing center to determine student eligibility for the Pell Grant Program (one of three multiple awards).

Item: Contract to Operate the Multiple Data Entry System

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
4,414	4,337	4,596	4,826	5,067	5,321

Description: Contractor transmits data collected on its financial aid application to the Pell Grant processing center to determine student eligibility for the Pell Grant Program (two of three multiple awards).

Item: Contract to Operate the Multiple Data Entry System

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
1,077	1,142	1,199	1,259	1,322	1,388

Description: Contractor transmits data collected on its financial aid application to the Pell Grant processing center to determine student eligibility for the Pell Grant Program (three of three multiple awards).

Office of Inspector General

Item: Multifunction, Distributed Information Processing System

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
190	208	248	290	290	290

Description: This procurement is for the acquisition of eleven multifunction, distributed information processing systems which are interconnected by dial-up (up to 2400 baud) lies and connected to the host data processing computer for batch and interactive processing. The contractor must provide the hardward, software, i.e., operating system, word processing, records management, and communication equipment to satisfy this procurement.

Office of Civil Rights

Item: OCR Elementary and Secondary Survey Analysis

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
440	100	425	100	435	100

Description: The development of a data base and the analysis of information collected in the Elementary and Secondary School Civil Rights Survey for use in planning compliance-related activities, developing state and national summaries and as a directory of schools and school districts.

Item: Annual Report on Progress in Implementing H.E. Desegregation Plans

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
475	340	375	375	420	420

Description: Recurring development of data bases on higher education institutions in states implementing desegregation plans to assist OCR in the monitoring of these activities.

Item: Vocational Education Civil Rights Survey

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
800	250	50	50	900	250

Description: The development of a data base and the analysis of survey information from vocational education institutions to target noncompliance with Civil Rights Statutes.

Item: Section 504 Higher Education Issues Survey

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
400	100	400	100	400	100

Description: The development of a data base and associated analysis to comply with regulations for implementing Section 504 of the Rehabilitation Act of 1973 and the 1983 Adams Order. The data base will focus on handicapped student services, benefits, and the degree to which handicapped students are gaining access to programs at federally assisted higher education institutions.

National Center for Education Statistics

Item: Higher Education General Information Survey (HEGIS)

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
280	230	250	275	275	275

Description: Annual surveys of 2 and 4 year colleges and universities.

Item: National Longitudinal Surveys (HS&B)

Funding:

FY'84	FY'85	FY'86	FY'87	FY'88	FY'89
280	230	300	100	250	105

Description: Biennial longitudinal survey of a national sample of high school sophomores and seniors to trace educational outcomes.

DEPARTMENT OF LABOR

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Mine Safety and Health Administration
Coal Mine Safety and Health

Item: Telecommunications network lease and maintenance

Obligations:	1984	1985	1986	1987	1988	1989
	349	343	1,200	1,260	1,325	1,400

Description: A telecommunications network of terminals at 37 of 80 locations currently supports the basic MIS which was completed in fiscal year 1983.

Item: Terminals extended to field office level

Obligations:	1984	1985	1986	1987	1988	1989
	19	263	500	000	000	000

Description: Telecommunications network and terminals will be extended to agency field offices to improve MIS data entry and performance. Mail delays will be eliminated and field personnel will have access to all developed applications.

Item: Computerized graphing and query capability

Obligations:	1984	1985	1986	1987	1988	1989
	000	000	683	1,058	668	688

Description: Computerized graphing capability will be extended down to subdistrict office level to provide quick analysis of MIS reports and on file data and support graphing requirements. Query software will provide immediate acess to on file information not available via programmed output.

Item: Terminals replacement

Obligations:	1984	1985	1986	1987	1988	1989
	000	000	960	435	435	435

Description: Older terminals will be replaced with newer ones and faster printers at high volume offices.

Technical Support

Item: Teleprocessing services (interagency)

Obligations:	1984	1985	1986	1987	1988	1989
	525	600	600	600	650	650

Description: On going interagency agreement with the National Oceanic and Atmospheric Administration for time-sharing computer services. Contingent upon purchase of the PRIME computer upgrade these figures could be reduced to about $100,000 from 1987 onward.

Item: Upgrade of in-house computer

Obligations:	1984	1985	1986	1987	1988	1989
	000	000	565	000	000	000

Description: Upgrade of PRIME 750 computer system to PRIME 850 system.

Denver Computer Center

Item: Data terminals for computer facility

Obligations:	1984	1985	1986	1987	1988	1989
	20	21	22	23	25	25

Description: Maintenance cost associated with procurement of replacement data terminals to replace present equipment.

Item: Data modems/multiplexers and telecommunications network controller

Obligations:	1984	1985	1986	1987	1988	1989
	600	320	330	340	350	350

Descriptions: Acquired compatible equipment through negotiated contracts to replace unlike equipment and add 40 locations to the communications network which will include point-to-point leased lines. The Data Communications Systems functionally supports all MSHA inspection field offices and administration and management functions.

Item: Competitive replacement of computer in central computing facility

Obligations:

1984	1985	1986	1987	1988	1989
000	000	4,600	3,700	1,900	1,900

Description: Purchase, rental, maintenance and conversion costs associated with procurement of new central computing facility.

Item: Functional upgrade to central computing facility

Obligations:

1984	1985	1986	1987	1988	1989
1,028	1,120	850	420	430	430

Description: Increase memory size, change to faster processor, add sixteen (16) disk storage devices with associated controllers, and expand the Datanet front-end processor to handle required data communication lines. Current contract expires December 1983, to be renegotiated to gain additional capacity to support MSHA program enforcement of P.L. 95-164 for up to six (6) years.

Item: Competitive replacement of page printing equipment in central computer

Obligations:

1984	1985	1986	1987	1988	1989
175	25	26	28	30	30

Description: Purchase, rental, maintenance and conversion costs associated with procurement of a new on-line page printing Computer System. Present system will have exceeded life expectancy and manufacturer replacement parts will no longer be provided by contractor. To be replaced using competitive procurement processes.

Item: Functional upgrade of magnetic tape controller and drive system

Obligations:

1984	1985	1986	1987	1988	1989
175	3	100	6	7	8

Description: Exchange/replace slower 7 track 550/800 Bits Per Inch (BPI) tape drives and controllers for 6250 BPI tape drives with selectable 7 or 9 track controllers.

Item: GCOS 8 operating software system

Obligations:

1984	1985	1986	1987	1988	1989
000	000	110	120	125	130

Description: Acquire state-of-the-art operating software for upgraded computer hardware.

Department of Labor

Item: Computer generated graphics capability

Obligations:	1984	1985	1986	1987	1988	1989
	000	170	40	50	55	60

Description: Competitively acquire a computer generated graphics capability thorugh competitive procurement.

Employment and Training Administration

Item: Distributed Computer Network (DCN)

Obligations:	1984	1985	1986	1987	1988	1989
	2,144	2,006	1,710	1,555	1,570	1,300

Description: Progress in the DCN will include enhancing computer capability at the central site, utilization of LBL to develop new computer programs and packages for ETA use, and continued use of telecommunications to the regional offices to existing computer sites.

Departmental Management

Item: Software

Obligations:	1984	1985	1986	1987	1988	1989
	913	310	000	000	000	000

Description: Purchase of software for administrative systems including the Air Force Automated Personnel System, supported by the Harris mini-computers.

Pension Benefit Guaranty Corporation Fund

Item: Timesharing Services

Obligations:	1984	1985	1986	1987	1988	1989
	1,314	115	000	000	000	000

Description: To proved for continued time-sharing services to support the Corporation data processing needs in FYs 1984 and 1985 - until the new integrated processing facility is fully operational.

Item: System Analysis

Obligation:	1984	1985	1986	1987	1988	1989
	1,063	650	325	325	325	325

Description: To provide for continued services for systems analysis, programming, design and system implementation of ADP systems.

Item: Hardware Aquisition

Obligation:	1984	1985	1986	1987	1988	1989
	970	290	10	10	10	10

Description: Purchase cost of peripherals, and local area network associated with the new integrated data processing facility.

Item: Facilities Management/Equipment/Maintenance

Obligations:	1984	1985	1986	1987	1988	1989
	525	750	750	750	750	750

Description: Management and maintenance cost associated with the integrated data processing facility.

Item: Software Acquisition/Modification

Obligations:	1984	1985	1986	1987	1988	1989
	1,793	537	000	000	000	000

Description: Purchase cost of software packages, and modification thereof, for new integrated data processiong facility.

Bureau of Labor Statistics

Item: Remote Batch and Teleprocessing Services Contract

Obligations:	1984	1985	1986	1987	1988	1989
	4,500	4,819	5,246	4,845	4,082	4,082

Description: Increase cost in the out years will service the CPI Revision through FY 1988. This contract was awarded in FY 1984 and is due to expire in FY 1989.

Item: BLS Communications Network

Obligations:

1984	1985	1986	1987	1988	1989
963	963	963	963	963	963

Description: To obtain computer and telecommunications equipment and services as well as keypunch services which permit the Bureau to conduct automated data transmissions between its Washington office and its eight regional offices.

Item: ADP Telecommunications and Data Entry Services

Obligations:

1984	1985	1986	1987	1988	1989
1,914	1,879	1,947	1,997	1,874	1,874

Description: To obtain data entry and facilities management services. Increased costs in the out years will services the CPI revision through FY 1988.

Employment Standards Administration

Item: Computing Equipment (L/S)

Obligations:

1984	1985	1986	1987	1988	1989
410	972	20*	20*	20*	20*

Description: This is the cost of equipment (purchase).

Hardware Maintenance

Item: System Analysis and Programming Black Lung

Obligations:

1984	1985	1986	1987	1988	1989
000	1,260	1,290	1,344	000	000

Description: The estimated costs of systems analysis, design, programming, program enhancement and/or maintence.

VETERANS ADMINISTRATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Office of Data Management and Telecommunications

ITEM: Austin Equipment Replacement

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	$2,426	$2,051	$3,006	$3,672	$4,289	$4,746

DESCRIPTION: Funding is for lease and maintenance of computer equipment to replace the triplex computer system currently installed at the Austin DPC. Replacement of the overall system is necessary to meet anticipated needs and to come up to a standard which meets the state-of-the-art.

ITEM: Replacement of ARS Input Equipment

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	$580	$1,578	$1,399	$1,437	$1,476	$1,516

DESCRIPTION: Funding is for lease and maintenance of state-of-the-art data entry terminals to replace keypunch equipment which is used for input to the VA Integrated Data System (formerly Advanced Records System).

ITEM: Electronic Printing Systems

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	—	$566	$592	$619	$647	$675

DESCRIPTION: Funding is for lease and maintenance of three electronic printing systems -- one each at Austin, Hines, and Philadelphia.

ITEM: Office Automation Systems

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	--	$781	$731	$764	$798	$834

DESCRIPTION: Funding is for lease and maintenance of state-of-the-art office automation systems at Central Office and the data processing centers.

ITEM: Target Network Improvements

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	—	$1,370	$ 68	$ 71	$ 74	$ 78

DESCRIPTION: Funding is for purchase of additional storage capacity, modems to improve communication speed and front end processors to support communications protocols and terminal devices.

Item: COMPUTER AIDED DESIGN/COMPUTER AIDED REVIEW UPGRADE

Obligations:	1984	1985	1986	1987	1988	1989
Hardware	300	350	500	350	300	300
System Dev	430	890	870	600	200	200

Description: Upgrade of technical applications/graphics (CAD/CAR CAPABILITIES) utilizing distributed processing with Satellite and Host processors.

Implementation of Facility Development Design and Review System using CAD/CAR technology.

ITEM: RESIDENT ENGINEER MANAGEMENT SYSTEM

Obligation:	1984	1985	1986	1987	1988	1989
Hardware	...	75	75	75	150	75

Description: Implementation of automated site management tools for Resident Engineers.

ITEM: PROGRAM-WIDE INFORMATION SYSTEM NETWORK

Obligation:	1984	1985	1986	1987	1988	1989
Hardware	460	150	250	100	650	200
Software	50	50	50	100	50	50

Description: Expansion of Construction Distributed Data Processor(s). By 1988/1989 currently installed processors will have met or exceeded 6 year life and competitive replacement will be accomplished.

Department of Veterans Benefits

Item: Loan Guaranty Rapid Access System

Obligations:	1984	1985	1986	1987	1988	1989
	1,800	214	1,285	275	275	275

Description: Purchase Site preparation and maintenance costs associated with the procurement of video display terminals for rapid access capability in all Loan Guaranty ADP systems: Guaranteed and Insured Loans (GIL), Portfolio Loan System (PLS), Liquidation and Claims System (LCS), Property Management System (PMS), and General Ledger System (GLS). The procurement of terminals for 50 DVB field stations is planned in two steps in FY 84 and FY 86, to match the phased implementation plan from FY 85 through FY 87.

Department of Memorial Affairs

Item: DMA automation - Decision Support/Office automation, monument application and interment related subsystems.

Obligations:	1984	1985	1986	1987	1988	1989
	165	165	150	150	150	150

Description: Pilot test initiated in 1982 and continued through 1984. All subsystems will be operational in 1985.

Item: Telecommunications

Obligations:	1984	1985	1986	1987	1988	1989
	985	1,074	1,074	1,074	1,074	1,074

Description: The telecommunications resources presented in Exhibit 43A represents the recurring needs of telephone, teletype, and other telecommunication services such as FTS, ARS, Record/Data and Facsimile services. Communications increases represent normal cost increases.

Office of General Counsel

Item: LEGIS-SLATE / JURIS

Obligations:	1984	1985	1986	1987	1988	1989
	25	25	26	26	27	28

Description: Sharing agreement with Justice Department for legislative and litigative tracking, research and reference.

Item: WESTLAW

Obligations:	1984	1985	1986	1987	1988	1989
	30	98	71	72	73	74

Description: WESTLAW legal research on federal and state law.

Item: CENTRAL OFFICE DOCUMENT TRACKING SYSTEM

Obligations:	1984	1985	1986	1987	1988	1989
	93	102	102	103	103	103

Description: Maintenance, supplies and minor programming.

Office of Budget and Finance (Controller)

Item: Purchase of an office automation system

Obligations:	1984	1985	1986	1987	1988	1989
	--	501	--	--	--	--

Description: To keep up with an ever increasing work load in all services an office automation system is required. This proposal has been reviewed and approved by both the Information and Regulations Staff and the Office of Program Planning and Evaluation.

Item: Purchase of software

Obligations:	1984	1985	1986	1987	1988	1989
	--	100	--	--	--	--

Description: To purchase a financial modeling software package to further enhance our ADP system for Budget Service.

Item: Purchase of microcomputers

Obligations:	1984	1985	1986	1987	1988	1989
	100	65	30	30	30	30

Description: Microcomputers purchased in the prior year have proven to be so effective, that many more applications will be put on as microcomputers are purchased.

Item: Maintenance of Data General software and computer

Obligations:	1984	1985	1986	1987	1988	1989
	24	25	26	27	28	29

Description: Necessary maintenance contracts on the Data General computer and software.

Item: Maintenance of the office automation system

Obligations:	1984	1985	1986	1987	1988	1989
	--	16	64	67	70	73

Description: Necessary maintenance contracts on the office automation equipment.

Item: Maintenance of microcomputers

Obligations:	1984	1985	1986	1987	1988	1989
	7	8	16	17	18	19

Description: Necessary maintenance contracts on the microcomputers.

Item: Maintenance of IV Phase Computer

Obligations:	1984	1985	1986	1987	1988	1989
	12	12	13	14	15	16

Description: Necessary maintenance contracts on the IV Phase computer.

UNITED STATES RAILROAD RETIREMENT BOARD

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Competitive Replacement/Upgrade of Mainframe Computers

Obligations:	1984	1985	1986	1987	1988	1989
	-	1,200	-	-	-	-

Description: To provide additional computing capacity for automation plans currently under development, the agency will upgrade or replace its computers in FY 1985.

Item: Construction of New Data Center

Obligations:	1984	1985	1986	1987	1988	1989
	150	1,300	-	-	-	-

Description: To provide adequate data center facilities in support of the automation plan, the agency will construct a modern data center to house the ADP equipment and technical services staff.

Item: Competitive Acquisition of Networking Services for District Offices

Obligations:	1984	1985	1986	1987	1988	1989
	41	363	700	700	700	700

Description: The agency will begin a phased-in implementation in FY 84 of a district office data communications network to provide district office access to the information center at headquarters.

Item: Contract to Provide Systems Design, Analysis, and Programming for a New Retirement Claims Processing Systems

Obligations:	1984	1985	1986	1987	1988	1989
	4,700	3,500	3,000	2,000	-	-

Description: On a competitive basis, the agency will award a contract to develop a new processing system to replace the current batch, tape-oriented claims processing system with a new on-line adjudicative system.

Item: Competitive Acquisition of Data Terminal Equipment and Data Communication Equipment for District Offices

Obligations:	1984	1985	1986	1987	1988	1989
	1,330	-	934	-	-	-

Description: Purchase of communications hardware to implement data communications capability in the agency's district offices.

Item: Acquisition of DASD Storage

Obligations:	1984	1985	1986	1987	1988	1989
	200	480	-	-	-	-

Description: Upgrade of existing DASD to double-density and buy-out of leased DASD.

DEPARTMENT OF AGRICULTURE

Major Information Technology Acquisition Plans
1983 - 1988
(In thousands of dollars)

Agricultural Marketing Service

Item: Agency Long-Range IRM Plan Objective #1: Electronic Networking

Obligations:	1983	1984	1985	1986	1987	1988
	15	45	55	95	120	155

Description: To explore and expand the use of shared electronic exchange facilities wherever possible in Agency operations.

Item: Agency Long-Range IRM Plan Objective #2: Agency Administrative Information System

Obligations:	1983	1984	1985	1986	1987	1988
	60	85	130	180	245	270

Description: Development of multiple automated administrative systems and an environment of integrated subsystems of administrative applications.

Item: Agency Long-Range IRM Plan Objective #3: Market News System

Obligations:	1983	1984	1985	1986	1987	1988
	100	185	235	260	260	310

Description: Evaluate, design, test, and implement alternative methodologies for electronic information exchange and market news information dissemination.

Item: Agency Long-Range IRM Plan Objective #4: Cotton Electronic Recording System

Obligations:	1983	1984	1985	1986	1987	1988
	650	680	680	900	900	900

Description: Complete implementation and refinement of system providing automated processing capability to all Cotton Marketing Services Offices.

Item: Agency Long-Range IRM Plan Objective #6: Agency Automated Accounting Reporting System

Obligations:

1983	1984	1985	1986	1987	1988
275	300	330	330	355	380

Description: Continued operation of the Agency's automated accounting reporting system for nation-wide reporting of regular and user-fee accounting data.

Item: Agency Long-Range IRM Plan Objective #7: Computer Operations and Agency Technology Center

Obligations:

1983	1984	1985	1986	1987	1988
560	300	320	365	385	420

Description: Provides comprehensive local shared data processing facilities to enable Agency users to input and retrieve information from various automated systems through various Departmental and commercial computer centers.

Item: Agency Long-Range IRM Plan Objective #8: F&V PACA System Conversion

Obligations:

1983	1984	1985	1986	1987	1988
215	265	240	240	240	240

Description: To redesign and convert the currently automated system from its present commercial time-sharing vendor to more integrated, extensive and cost-effective processing at existing Departmental facilities.

Item: Agency Long-Range IRM Plan Objective #9: F&V Processed Products Automation

Obligations:

1983	1984	1985	1986	1987	1988
40	85	110	125	130	130

Description: Develop an automated system utilizing microcomputers for field and regional office computerization of critical office functions.

Item: Agency Long-Range IRM Plan Objective #11: Poultry Division Automation

Obligations:

1983	1984	1985	1986	1987	1988
80	150	155	160	165	170

Description: Continue development and operation of several automated information processing and monitoring systems within the grading and commodity procurement activities of the AMS Poultry Division.

Item: Agency Leased Wire Market News System

Obligations:

1983	1984	1985	1986	1987	1988
900	1,110	1,200	1,250	1,300	1,350

Description: Continued operation of this Agency nationwide telecommunication network of dedicated leased communication lines used for the transmission and exchange of time-sensitive agricultural market news.

Animal and Plant Health Inspection Service (APHIS)

Item: National Finance Center

Obligation:

1983	1984	1985	1986	1987	1988
560	714	752	789	808	826

Description: The National Finance Center (NFC) provides APHIS with centralized support for administrative systems (accounting, personnel, payroll, property and vehicle). Beginning in FY84 the NFC will start implementation of distributed processing versions of the administrative system. The first one to be implemented is Personnel/Payroll. APHIS will start utilizing it on a pilot basis in November 1983. Expenditures at NFC will increase in accordance with the number of distributed systems implemented.

Item: Telecommunications (Voice and Data)

Obligation:

1983	1984	1985	1986	1987	1988
3,994	4,473	5,010	5,611	6,284	7,033

Description: Telecommunication, both voice and data, are being exploited by APHIS to accomplish the Agency's mission. Voice communication, with accompanying devices such as bridges, teleconferencing systems, etc., are being utilized to more effectively and efficiently accomplish the mission while at the same time reducing travel. Data telecommunications, primarily through

Departmental Telecommunications Network (DEPNET), will be linking all APHIS offices to the USDA Computer Centers, and other processing sites. This has not been accomplished yet, but it is a goal for FY84 to include as many APHIS participants as possible on DEPNET. The use of DEPNET will tend to reduce telecommunication costs by eliminating leased lines, WATS line and FTS usage. Savings will be achieved by maximizing DEPNET usage thereby taking advantage of lower cost for higher usage.

Item: Office Automation (COSS)

Obligation:	1983	1984	1985	1986	1987	1988
		2,036	1,904	823	327	447

Description: APHIS has always been in the forefront in the use of the latest technology. In order to maintain this posture, for the past 2 years APHIS has been preparing a procurement for equipment to replace existing lease equipment in the office automation arena. The equipment, to be procurred on a competitive basis, will avail to APHIS the latest word processing, user-friendly data processing and telecommunication systems available from the private sector. APHIS intends to install this equipment in all offices which justify it. Even though delays have been encountered in the procurement process, APHIS projects that the procurement will begin in FY84.

Item: Microcomputer Procurement

Obligation:	1983	1984	1985	1986	1987	1988
	102	546	552	100	100	50

Description: Due to the number of automation requests that cannot be exercised by the ADP Staff, APHIS has accelerated the introduction of microcomputers to support standalone administrative and management tasks. The microcomputer procurement effort that will be affected is in conjunction with the office automation procurement to ensure that there is as little duplication of resources as possible.

Item: Replacement of HP3000 Minicomputer

Obligation:	1983	1984	1985	1986	1987	1988
	-	-	500	-	-	-

Description: The HP3000 Model 3 resident in Ames, Iowa, since 1976 will not be maintained by Hewlett/Packard after FY86. Due to this fact, and additional user requirements at the processing location, APHIS needs to procure state of the art equipment. APHIS will attempt a noncompetitive procurement for replacement of the present equipment with equipment by the same vendor. If APHIS is not successful in this endeavor, a maximum of $500,000 has been included in the FY85 A-11 to competitively procure appropriate hardware and software.

Item: Brucellosis Information System

Obligation:	1983	1984	1985	1986	1987	1988
	3,407	5,845	4,916	5,505	6,166	6,906

Description: The Brucellosis Information System (BIS) will continue in the developmental stage through FY84. As of the beginning of FY84, there were 26 States actively exercising the system. It is projected that the majority of the States will have implemented the BIS by the end of FY84. Expenditures in FY85 and beyond are primarily the cost of processing the data at FCCC, lease and maintenance of equipment, and salary of personnel directly in support of the BIS.

Agricultural Stabilization and Conservation Service

Item: IRM Objective 2: To install information processing technology in ASCS State and County Offices by June 1987

Obligations:	1984	1985	1986	1987	1988	1989
	18,301	58,814	83,092	51,287	15,270	14,841

Description: Based on 3 years of highly successful testing, automation equipment will be placed in all 2,882 state and county offices to assist with delivery of program services. This is the focal point of a major paperwork reduction program and the basic step in creation of a joint FAS-ASCS data base which will contain information on local production and foreign demand for agricultural commodities. The information will facilitate both export marketing and production planning.

Item: IRM Objective 3: To create a fully operational joint ASCS/FAS information technology center by June 1987

Obligations:	1984	1985	1986	1987	1988	1989
	2,786	3,560	4,357	3,026	2,742	2,756

Description: The joint ASCS/FAS computer facility in Washington will be upgraded with larger computer systems to permit data processing for both agencies and to support a data base which will contain information on both domestic production and foreign demand. The facility will improve the effectiveness and efficiency of production control and export marketing programs through better management coordination and data availability.

Item: IRM Objective 5: To establish an information center for ASCS program and management personnel by June 1985

Obligations:	1984	1985	1986	1987	1988	1989
	285	435	435	435	435	435

Description: Most periodic fixed-format reports will be eliminated through provision of on-line inquiry, report generation and modeling capability to managers and specialists. Multi-purpose terminals located at their work sites will provide the access to these services, as well as to office automation functions. A central facility will be available for consultation, technical assistance and special purpose capabilities such as graphics. The ultimate long range objective is user generation of computer applications.

Item: IRM Objective 8: To replace the obsolete grain and processed commodity inventory systems by November 1985

Obligations:

1984	1985	1986	1987	1988	1989
114	60	14			

Description: Contractual support will be used to develop data base application systems for management of grain and processed commodity inventories. The new inventory systems will replace obsolete systems which have become excessively expensive and difficult to maintain and which do not employ data base concepts needed for effective and efficient inventory management.

Item: IRM Objective 10: To implement office automation, integrated with data processing throughout ASCS by May 1985

Obligations:

1984	1985	1986	1987	1988	1989
907	320	214	214	214	214

Description: Obsolete and non-standard word processing systems are being replaced with shared logic archiving systems that are compatible not only within ASCS but also with systems of the Foreign Agriculture Service. Costs shown subsequent to FY 1985 are for equipment maintenance.

Item: Personal computers

Obligations:

1984	1985	1986	1987	1988	1989
132	90	109	75		

Description: Personal computers will be acquired to support managers and financial and program analysts at the Washington headquarters and major field offices. The computers will precede and supplement data processing capability being developed under IRM Objectives 3 and 5.

Item: County office telephone services

Obligations:

1984	1985	1986	1987	1988	1989
8,708	6,033	5,500	5,500	5,500	5,500

Description: Telephone services for the 2,832 county offices, acquired from local commercial telephone companies at prevailing rates. 1984 and 1985 include amounts for purchase of presently leased telephone instruments (FY 1984 $4 million, FY 1985 $1 million). Estimated service costs are straight-lined after FY 1985 because of anticipated savings in equipmental rental expected to result from the 1984-1985 purchases.

Item: Cooperative National Plant Pest Survey and Detection System (CNPPSDS)

Obligation:	1983	1984	1985	1986	1987	1988
	83	139	264	150	160	170

Description: The CNPPSDS has been in operation since 1982. At the present time, the project is operational in 44 states. A modified version of the FY83 system will be available to the user during the FY84 growing season. At the same time, a study is being done to determine if there is a more cost-effective methodology to provide the CNPPSDS user with more timely and accurate information. Assuming that the study indicates that Plant Protection and Quarantine should develop an alternative system, management will exercise the option in the latter part of FY84 and beginning of FY85. This new methodology should be available by the FY85 growing season.

Item: Port Information Network

Obligation:	1983	1984	1985	1986	1987	1988
	-	-	1,000	-	-	-

Description: Initiation, development and implementation of an on-line real time microcomputer based network for accessing port-based information on a mainframe computer. The original feasibility study was done in 1980 for a system, the Agricultural Risk Communications Network.

Agricultural Research Service

Item: Development of Scientific Applications and Activities (IRM Objective 1)

Obligations: (see note)	1984	1985	1986	1987	1988	1989
	5,149	5,044	4,494	3,852	3,852	3,852

Description: Through the use of modern automation techniques, substantial improvements can be made in scientific applications in terms of data acquisition, processing and display. Scientific investigations can now be conducted which previously were impossible because of the need for precise control of laboratory apparatus, greater precision, data recording functions, or competitional capacity.

Item:	Laboratory Automation Activities (IRM Objective 2)					
Obligations: (see note)	1984	1985	1986	1987	1988	1989
	2,677	2,327	2,127	1,549	1,549	1,549

Description: Real-time data acquisition systems enable scientists to record and analyze data during the progress of experiments which enables experimental refinements and earlier reporting.

Item:	Advance ADP Facilities and Procurement Planning (IRM Objective 4)					
Obligations: (see note)	1984	1985	1986	1987	1988	1989
	866	1,630	1,029	371	371	371

Description: Coordination and cooperation with facilities engineering personnel, the National Program Staff and line officers will ensure early identification of plans for large dollar value procurements for hardware and/or software.

Item:	Modernization of ARS Telecommunication Facilities Nationwide (IRM Objective 5)					
Obligations: (see note)	1984	1985	1986	1987	1988	1989
	2,203	1,456	4,626	1,126	1,126	1,126

Description: Modern telecommunications equipment provides the opportunity for significantly improved management of telecommunications, including the reduction of line charges, access to combined voice and data communication facilities and improved efficiencies in providing telecommunication service.

Item: Development of Nationwide Automated ARS Program Management and Administrative Systems (IRM Objective 6)

Obligations: (see note)

1984	1985	1986	1987	1988	1989
1,671	1,780	1,315	898	955	955

Description: Refine ARS ADP systems and tie together into an agency nationwide management information system.

Item: Establish an Automated Network for ARS Headquarters and Major Field Offices (IRM Objective 7)

Obligations: (see note)

1984	1985	1986	1987	1988	1989
2,504	4,100	4,100	4,100	1,000	1,000

Description: Provide for a large-scale effort to convert from existing headquarters and regional system to an integrated headquarters and field office network. Beginning in FY1985 a competitive procurement will replace existing Datapoint equipment in the eleven Area and four Headquarters locations.

Item: Miscellaneous Equipment for ADP/Office Automation Systems/Scientific Research

Obligations:

1984	1985	1986	1987	1988	1989
4,000	4,500	5,000	5,500	6,000	6,000

Description: Separate items of equipment are purchased for ADP, office automation systems, and scientific research which collectively amounts to significant costs for purchases or leases.

Note: Obligations for major information technology acquisitions indicated as IRM Objectives include estimated costs for staffing.

Office of Budget and Program Analysis

Item: Office Automation

Obligations:

1984	1985	1986	1987	1988	1989
124	72	30	30	30	30

Description: Office automated systems purchases, rental and maintenance.

Cooperative State Research Service

Item: Enhance the Current Research Information System

Obligations:

1983	1984	1985	1986	1987	1988
0	50	150	150	25	25

Description: A study in 1984 to upgrade the system to provide more timely, accurate and accessible data on Federal agricultural research programs will lead to major system modification in 1985 and 1986.

Item: National Pesticide Information Research System

Obligations:

1983	1984	1985	1986	1987	1988
130	100	50	0	0	0

Description: The National Pesticide Information Research System, a cooperative effort with the Extension Service and Purdue University, began operation in October 1983 and provides data on registered pesticides online to Extension, research and regulatory personnel both in and outside government organizations. Plans call for the system to be self-sustaining by 1986.

Item: Integrated Agency Office Automation Plan

Obligations:

1984	1985	1986	1987	1988	1989
60	75	75	15	10	10

Description: Develop and implement strategic plan for Office Automation.

Item: Direct Data Entry From State and Federal Service

Obligations:

1984	1985	1986	1987	1988	1989
60	75	50	50	50	30

Description: Develop computer software, educate users and purchase equipment as necessary to maximize ease of input and timeliness of data from State and Federal sources.

Economic Research Service

Item: Implementation of Long-Range Information Management Plan.

Obligations:	1984	1985	1986	1987	1988	1989
	749	1,005	265	180	55	55

Description: Planning and implementation of the Agency Long-Range Information Management Plan.

Office of Equal Opportunity

Item: Word Processor and Computer Terminal*

Obligations:	1983	1984	1985	1986	1987	1988
		8	10	--	--	--

Description: Equipment will be used to automate civil rights activities and for processing equal employment opportunity information.

Item: System Development of Title VI*

Obligations:	1983	1984	1985	1986	1987	1988
	45	25	--	--	--	--

Description: Conduct study and develop computerized system to achieve more efficient administration of Civil Rights Compliance Review and Complaint Processing programs.

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* These items are included in OEO's Long-Range IRM Plan.

Extension Service

Item: Extension Service/Cooperative Extension Service Communications

Obligations:

1984	1985	1986	1987	1988	1989
$150	$150	$150	$150	$150	$150

Description: Since FY81, ES-USDA has steadily built the Extension electronic mail network facility. The services provided include mail, AG a.m., news releases, Computerized Outlook Information (COIN), Official Airline Guide (OAG) schedules, Extension publications, NAL Bibliographies, and Extension news.

Item: Extension Service (ES-USDA) Office Automation

Obligations:

1984	1985	1986	1987	1988	1989
$75	$50	$25	$20	$20	$20

Description: After a word processing and data processing equipment needs assessment in FY82, ES-USDA decided to phase out leased word processors in favor of the shared-logic WANG Alliance System. Workstations, printers and personal computers continue to be acquired until all ES-USDA units have access to centrally stored files, documents, mailing lists, and problem solving and decision making software. Once equipment is acquired, agency unit personnel will be trained in its use, supplies will be required, and maintenance agreements will be negotiated. Updating will occur as new software and peripherals become available.

Item: ES Accountability and Evaluation System

Obligations:

1984	1985	1986	1987	1988	1989
$50	$100	$100	$150	$150	$175

Description: All CES offices provide ES-USDA with four-year plans of work, narrative accomplishment reports, impact study results, civil rights compliances, affirmative action data, 4-H youth enrollment information, penalty mail information, personnel information, and EFNEP program participation information. The total automation of this data collection, reporting, summarization, and dissemination is an objective of ES-USDA.

Item: ES Automated Records Processing methods

Obligations:

1984	1985	1986	1987	1988	1989
$50	$50	$50	$40	$35	$35

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Description: As prescribed by Reform '88, Reform #1 initiative, the records-keeping systems for ES will be automated to develop more economical processing methods. Several systems will be converted to in-house microcomputers, such as the ES Publications data base, the ES Personnel system, the Research and Extension Grants Information System (REGIS), the Automated Pending Obligation System (TAPOS), and Penalty Mail.

Farmers Home Administration

Item: New Program Accounting System

Obligations:	1984	1985	1986	1987	1988	1989
	--	18,916	30,426	12,360	8,204	8,204

Description: A requirements and cost-benefit analysis of alternative approaches to redesign of the Farmers Home Administration's (FmHA) loan program accounting system was completed early in Fiscal Year 1984. It demonstrated that the highest benefit-to-cost ratio is obtained when a redesigned accounting system is interfaced with multi-function work stations in FmHA field offices. Purchase of these work stations will begin in Fiscal Year 1985 and will continue as funding is available through Fiscal Year 1987. Training, maintenance and telecommunications will continue in subsequesnt years. This acquisition is in support of Long-range IRM Objective No. 3: Create a New Program Accounting System.

Item: Multi-Family Housing Accounting System

Obligations:	1984	1985	1986	1987	1988	1989
	180	--	--	--	--	--

Description: A contract to develop a multi-family housing accounting system was awared in Fiscal Year 1983. This acquisition will fund what modificatons are required in Fiscal Year 1984 to complete that development in fulfillment of Long-range IRM Objective No. 2: Develop a Multi-Family Housing Accounting System.

Item: Office Automation Systems

Obligations:	1984	1985	1986	1987	1988	1989
	2,344	1,866	1,750	1,234	758	788

Description: Purchase and maintenance of word processors, terminals, etc. in support of Long-range IRM Objective No. 4: Develop office automation and end user computing in support of program and administrative operations.

Item: Software for Financial Analysis Systems

Obligations:	1984	1985	1986	1987	1988	1989
	545	260	--	--	--	--

Description: Contracted systems analysis and programming to develop a portfolio management system and an automated budget formulation system. This will meet two major milestones of Long-range IRM Objective No. 8: Develop Financial Analysis and Administrative Management Information Support Systems.

Federal Crop Insurance Corporation

Purchase of Hardware

Obligations:	1984	1985	1986	1987	1988	1989
	268	200	150	-0-	-0-	-0-

Description: Purchase of RJE equipment, word processors and mini computers.

Lease of Equipment

Obligations:	1984	1985	1986	1987	1988	1989
	287	316	300	300	300	300

Description: Lease of terminals, modems, communications equipment to support remote site operations at Washington, D. C., the Kansas City Office, 18 Field Operations Offices, and 12 Field Actuarial Offices.

Federal Grain Inspection Service

Item: Minicomputer

Part of FGIS IRM Objective No. 1: Automation

Obligations:	1984	1985	1986	1987	1988	1989
	197	229	186	186	186	186

Description: Purchase, maintenance, and personnel costs associated with minicomputer and development and implementation of Agency automated systems.

Item: Office Automation

Part of FGIS IRM Objective No. 1: Automation

Obligations:	1984	1985	1986	1987	1988	1989
	641	1,006	462	699	701	703

Description: Purchase, rental, maintenance, personnel, and other costs associated with procurement of information processing equipment and implementation in all FGIS field offices and export locations.

Food Safety and Inspection Service

Item: Distributed Processing Systems

Obligations:	1984	1985	1986	1987	1988	1989
	2,102	2,049	1,504	1,550	1,596	1,643

Description: The major systems supporting the inspection program will be improved to record more extensive types of information and will be expanded with more remote terminals, in line with the following objectives of the FSIS long-range IRM plan:

3. Develop new and modified data bases, and control and maintain existing data bases in a timely manner.
4. Provide the necessary software to meet changing FSIS needs.

7. Implement the automated Meat and Poultry Inspection Resources Information System.

8. Further develop the Microbiological and Residue Computer Information System.

9. Upgrade the Automated Import Information System.

Item: ADP/office Automation Systems

Obligations:	323	335	246	253	261	269

Description: Intelligent terminals and microcomputers will allow better-informed management of FSIS programs, in line with the following objectives of the agency IRM plan:

1. Increase management participation in decision-making regarding automated information technology.

2. Increase the participation of subject matter specialists in ADP application development efforts.

5. Provide telecommunications network capability to all key FSIS offices.

10. Train FSIS users to utilize terminals, microprocessors and data base management systems.

Foreign Agricultural Service

Item: Acquisition of additional Wang terminals and printers to augment existing equipment

Obligations:	1984	1985	1986	1987	1988	1989
	80	0	0	0	0	0

Description: About 12 to 15 workstations, printers, and other equipment will be acquired to meet the needs for additional equipment to support office automation and existing ADP acquisitions. After FY 84, equipment will be maintained at FY 84 levels. This acquisition is in support of the following FAS IRM Objectives:

2 - Acquire information processing equipment
13 - Office automation

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Item: Acquisition of workstations and printers for attachment to FAS/ASCS transition system

Obligations:	1984	1985	1986	1987	1988	1989
	80	125	400	400	250	250

Description: The initial procurement of terminals and printers for attachment to the transition system will be acquired in FY 84. Additional terminals will be added incrementally until all obsolete equipment has been phased out. This acquisition is in support of the following FAS IRM Objectives:

2 - Acquire information processing equipment
3 - Implement integrated data base
13 - Office automation
5 - FAS remote sensing enchancements

Item: Acquisition of graphics hardware and other attachments to transition system

Obligations:	1984	1985	1986	1987	1988	1989
	50	50	0	0	0	0

Description: The initial procurement of graphics terminals and image processing equipment will be completed in FY 84 with additional equipment acquired in FY 85. This acquisition is in support of the following FAS IRM Objectives:

2 - Acquire information processing equipment
13 - Office automation

Item: Acquisition of hardware maintenance of equipment attached to joint facility

Obligations:	1984	1985	1986	1987	1988	1989
	150	165	200	200	240	240

Description: Hardware maintenance of workstations, printers, and other ADP hardware outside the central facility used to support FAS applications. Indirectly in support of the IRM Objective 2, identified above.

Item: Acquisition of ADP equipment for Agricultural Trade offices

Obligations:	1984	1985	1986	1987	1988	1989
	220	25	0	0	0	0

Description: Purchase of microcomputer equipment for Agricultural Trade offices. This acquisition is in support of FAS IRM Objective 13 - Office Automation

Item: Acquisition of microcomputer equipment for local Washington support

Obligations:	1984	1985	1986	1987	1988	1989
	60	100	100	100	100	100

Description: Initial Agency use of microcomputers to support local office automation was begun in FY 83. Continued growth in demand for microcomputers will require increased acquisition in subsequent years. This acquisition is in support of the following FAS IRM Objectives:

2 - Acquire information processing equipment
13 - Office automation

Item: Acquisition of commercial applications software support service

Obligations:	1984	1985	1986	1987	1988	1989
	1,167	1,405	2,000	2,000	1,500	1,000

Description: New system development, conversion, and maintenance of operational systems to be supplied by commercial contractors. These acquisitions are in support of the following FAS IRM Objectives:

3 - Implement integrated data base
5 - FAS remote sensing enhancements
6 - Foreign trade system
7 - Export Credits system
8 - GEDES enhancements
13 - Office automation
14 - Fund control system
15 - PSED enhancements
17 - International price system

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Forest Service

Item 1: Forest Level Information Processing System

Obligations:	1984	1985	1986	1987	1988	1989
	20,365	15,865	23,580	0	0	0

Description: Local computing and office automation capability will be acquired for all Forest Service Regional and Forest headquarters, and for most Ranger Districts. These facilities will be obtained through a Service-wide contract for minicomputers which was awarded in FY83.

Item 2: ADP/WP site preparation

Obligations:	1984	1985	1986	1987	1988	1989
	3,602	1,386	942	0	0	0

Description: Installation of power sources and modification of sites for ADP/WP systems.

Item 3: Microwave

Obligations:	1984	1985	1986	1987	1988	1989
	3,125	2,990	2,750	1,750	1,750	1,750

Description: Installation, operation, and maintenance of National Forest and/or Regional microwave communication systems.

Item 4: Telecommunications site preparation

Obligations:	1984	1985	1986	1987	1988	1989
	762	942	750	475	475	475

Description: Site modifications required for installation of telephone exchanges and local area networks. Construction of towers for microwave.

Item 5: Data networking

Obligations:	1984	1985	1986	1987	1988	1989
	1,953	1,794	1,700	1,700	1,700	1,700

Description: Operation and maintenance of data telecommunications networks for remote locations not served by DEPNET.

Item 6: Data telecommunications hardware

Obligations	1984	1985	1986	1987	1988	1989
	1,900	1,600	1,100	120	120	120

Description: Modems, port contenders, and other hardware incorporated into Forest and/or Regional networks.

Item 7: Telephone system enhancements

Obligations:	1984	1985	1986	1987	1988	1989
	3,500	3,500	3,500	1,500	1,500	1,500

Description: Modernization and replacement of telephone facilities in Regional and National Forest offices. Included purchase of currently leased switch systems and telephone sets.

Item 8: Computer graphics

Obligations:	1984	1985	1986	1987	1988	1989
	810	540	380	280	180	180

Description: A 2-year procurement for stand-alone interactive graphics facilities was awarded in 1983. A study is currently under way to determine the feasibility of adding this capability to the Forest Level Interactive Processing System. The obligations for 1985-1989 will be expended only if that study has a favorable outcome.

Item 9: Software

Obligations:	1984	1985	1986	1987	1988	1989
	308	169	190	253	90	100

Description: Purchase of general-purpose commercial software for installation and use on Departmental and Forest Service facilities.

Item 10: Dedicated microprocessors

Obligations:	1984	1985	1986	1987	1988	1989
	272	150	100	100	100	100

Description: Acquisition of microprocessors for dedicated application use. These micros will be used most widely as process control devices by Research. Others may be dedicated to fire dispatch traffic control or to on-site log scaling.

Item 11: Local area networks

Obligations:	1984	1985	1986	1987	1988	1989
	1,275	750	225	225	225	225

Description: Interconnection of peripheral devices through local area network technology.

Item 12: Commercial ADPE services

Obligations:	1984	1985	1986	1987	1988	1989
	1,000	900	506	514	543	571

Description: ADPE services from commercial sources. These services are primarily for Research access to on-line commercial bibliographic data bases.

Item 13: Data transmission charges

Obligations:	1984	1985	1986	1987	1988	1989
	7,950	5,729	5,271	5,535	5,812	6,102

Description: Charges for transmission of data via DEPNET contract with TELENET.

Item 14: ADP/WP equipment operation and maintenance

Obligations:	1984	1985	1986	1987	1988	1989
	4,120	6,234	7,662	9,287	9,653	9,338

Description: Commercial operation and maintenance of ADP and WP equipment.

Item 15: Commercial telephone charges

Obligations:	1984	1985	1986	1987	1988	1989
	10,239	10,680	11,107	11,551	12,015	12,494

Description: Charges for commercial telephone usage by all Forest Service offices.

Office of Governmental and Public Affairs

Item: ADP/Office Automation Systems

Obligations:	1984	1985	1986	1987	1988	1989
	129	112	81	78	56	68

Description: Supports objectives GPA-OI-5, to increase effectiveness of printing and publishing, and GPA-OI-6, to install integrated information processing system. Includes purchase of microcomputers to develop more effective system for keeping records, tracking information, minimize paperwork, increase productivity, and improve service delivery and program management.

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Item: Telecommunications

Obligations:	1984	1985	1986	1987	1988	1989
	20	25	25	25	25	25

Description: Supports objective GPA-OI-1 to extend and expand electronic news dissemination service. Includes costs associated with services provided by DIALCOM.

Item: Telecommunications

Obligations:	1984	1985	1986	1987	1988	1989
	14	13	14	14	14	14

Description: Costs associated with services provided by LEGI-SLATE for tracking legislation and by DAROME in setting up press conferences.

Human Nutrition Information Service

Item: National Nutrient Data Bank

Obligations:	1984	1985	1986	1987	1988	1989
	0	20	0	0	0	0

Description: The nutrient data bank is being completely revised to incorporate the latest state-of-the-art. This will improve the efficiency of the system. The new system will operate in an interactive mode and additional terminals will be needed.

Office of Information Resources Management

Item: Microcomputer Hardware

	1984	1985	1986	1987	1988	1989
Obligations:	0	1/$ 5	0	0	2/$ 10	0

Description: 1/ Purchase of a microcomputer for the Director's office for gathering of management production data and development of Management Reporting Systems; for orientation of top level management on use of micro's in the office of automation and management processes.

2/ To upgrade our Office Automation and Management Support Hardware and Software.

Item: Microcomputer Software

	1984	1985	1986	1987	1988	1989
Obligations:	0	$ 1	0	0	$ 3	0

Description: Software for the Director's office for microcomputers shown above.

Item: Acquisition Plan

Obligations:	1983	1984	1985	1986	1987	1988
	56	38	45	50	55	60

Description: Purchase, rental and maintenance costs of terminal and word processing equipment.

Item: Departmental Telecommunications Network

Obligations:	1983	1984	1985	1986	1987	1988
	2,000	500	- -	- -	- -	- -

Description: As a result of a network RFP, a Departmentwide telecommunications contract was awarded and implementation begun. Initial costs are for start-up; other costs are reported by agencies as incurred.

Item: Agriculture Washington Area Telephone System (AWATS)

Obligations:	1983	1984	1985	1986	1987	1988
	- -	- -	- -	22,000	2,200	2,420

Description: Acquisition, installation, and maintenance of an integrated telecommunications system to serve USDA agencies located in the Washington, DC metropolitan area.

Item: Telephone Inventory Locator Directory Service (TILDS)

Obligations:	1983	1984	1985	1986	1987	1988
	- -	- -	250	17	18	19

Description: Establishment of a Telephone Inventory Locator Directory service with USDA in Washington, DC.

Item: Additions to National Computing Facility

Obligations:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+4
	2,325	2,877	4,000	3,250	3,500	3,750

Description: Purchase, rental and maintenance costs associated with procurement of peripheral equipment to keep a major computing center in business.

Item: Replacement of Central Complex at the National Computing Facility.

Obligations:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+4
	-0-	-0-	10,000	10,000	2,000	2,200

Description: Purchase, rental and maintenance costs associated with replacement of Central Computing Complex at a National Computing Facility.

Item: Data facsimile network

Obligations:	1984	1985	1986	1987	1988	1989
	0	0	0	0	0	0

Description: N/A

Item: Teleprocessing services contract

Obligations:	1984	1985	1986	1987	1988	1989
Telenet	232	290	363	454	568	710
WATS	49	61	76	95	119	149

Description: Services acquired under a TSP contract that will be reacquired.

Item: Competitive Replacement of Central Computing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	0	0	0	0	0	0

Description: N/A

ITEM: Data Facsimile Network

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3	0	0	0	0	0

DESCRIPTION: The St. Louis Computer Center is due to transfer it's workload to the Kansas City Computer Center and close on or before September 30, 1984.

ITEM: Teleprocessing Services Contract

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0	0	0	0	0	0

ITEM: Competitive Replacement of Control Computing Facility

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0	0	0	0	0	0

Item: WCC-01: Information Center

Obligations:

1984	1985	1986	1987	1988
430	400	350	350	350

Description: Design and implement requirements for hardware facilities and software to support an Information Center for WCC and its clients.

Item: WCC-02: Information Management System

Obligations:

1984	1985	1986	1987	1988
639	395	320	320	320

Description: Development of billing, problem management, configuration management, and demand forecasting systems to directly and indirectly support WCC users.

Item: WCC-03: Data Base Development and Support

Obligations:

1984	1985	1986	1987	1988
350	400	300	400	400

Description: Implementation of IDMS plus acquisition of supporting hardware and software.

Item: WCC-04: Maintenance and Improvement to Application Software

Obligations:

1984	1985	1986	1987	1988
550	380	400	400	400

Description: Maintenance and improvement of applications software through review evaluation and enhancement to meet WCC user requirements.

Item: WCC-05: Communication Network Management

Obligations:	1984	1985	1986	1987	1988
	399	771	801	806	811

Description: Develop and implement a Communication Network Management System to provide support for batch-file transfers and interactive terminal traffic through host-to-host interfaces.

Item: WCC-06: Cost Effective and Reliable Data Communication Services

Obligations:	1984	1985	1986	1987	1988
	1,833	1,705	1,668	1,681	1,694

Description: Provide needed hardware and software maintenance for Center-based telecommunications facilities and services to maintain a stable user environment.

Office of the Inspector General

Item: Integrated Office Automation System

Obligations:*	1984	1985	1986	1987	1988
	1000	1560	1500	1500	1500

Description: As a result of functional requirements and systems architecture studies, OIG will begin the phased acquisition of an integrated office automation system at the Headquarters and field offices.

Item: Intelligent Terminals

Obligations:	1984	1985	1986	1987	1988
	40	40	40	40	40

Description: These terminals are required to permit more efficient use of the Departmental computer centers than is currently available through present TTY type terminals. Increased speed will reduce connect time charges.

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*INCLUDES STAFF RESOURCES

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Item: GRID Compass Computers

Obligations:	1984	1985	1986	1987	1988
	140	UNK	UNK	UNK	UNK

Description: The President's Council on Integrity and Efficiency selected the Grid Compass Portable Computer as the standard portable for Inspector General audit and investigative use. OIG committed that two of these systems would be acquired and evaluated for effective use in OIG audits and investigations. The results of this evaluation will determine OIG's further needs.

Item: Microcomputers

Obligations:	FY 84	FY 85	FY 86	FY 87	FY 88
	40	50	50	50	50

Description: Several small applications in both OIG headquarters and the field offices can be effectively handled by personnel computers of both the desk top and portable types. Current plans are to acquire and evaluate effectiveness of microcomputers in improving administrative and field productivity with these systems.

Office of International Cooperation and Development

Item: CPT word processors

Obligations:	1984	1985	1986	1987	1988	1989
	10.2	20.0	--	--	--	--

Description: Additional equipment required due to new office configurations in the Auditors Building.

Item: Expansion of micro-computer system

Obligations:	1984	1985	1986	1987	1988	1989
	29.0	25.0	--	--	--	--

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Description: System purchased in FY 1983 can be expanded to include additional work stations. Proposed expansion of five additional stations plus required connecting hardware in each of the next two fiscal years.

Item: Personal computers for overseas activities

Obligations:	1984	1985	1986	1987	1988	1989
	47.0	--	--	--	--	--

Description: Personal computer systems will be purchased from different sources (Apple, Radio Shack, etc.) for use on AID-reimbursed overseas assignments.

National Agricultural Library

Item: In-house CALS Minicomputer

Obligations:	1983	1984	1985	1986	1987	1988
	0	60	120	120	85	25

Description: A competitive procurement is in progress to lease, with option to buy, a minicomputer, with text array processor, on which to operate the CALS (Current Awareness Literature Service) system.

Item: Integrated Library System

Obligations:	1983	1984	1985	1986	1987	1988
	0	75	150	150	115	40

Description: Preparations are being made to procure both hardware and software that will automate all of the principal library functions by October 1, 1985.

Item: Downloading

Obligations:	1983	1984	1985	1986	1987	1988
	0	20	20	--	--	--

Description: NAL plans to develop the capability to transfer information from one computer to another electronically.

Item: Storage and Dissemination of Full Text

Obligations:	1983	1984	1985	1986	1987	1988
	0	50	50	100	100	100

Description: NAL will begin using automated systems to store, retrieve, and disseminate, on demand, copies of full text of selected publications by September 1984.

Item: Non-bibliographic files or agricultural information

Obligations:	1983	1984	1985	1986	1987	1988
	0	50	100	200	200	200

Description: To identify, develop, and provide access to several computerized, non-bibliographic files of agricultural information by January 1987.

National Finance Center

Item: Information Center Implementation

Obligations:	1984	1985	1986	1987	1988	1989
	1,495	7,701	531	592	798	708

Description: Purchase, rental, and maintenance of CPU, front-end processors, upgrade to DASD, network control center, uninterrupted power supply, and relational data base.

Item: Office Automation Expansion

Obligations:	1984	1985	1986	1987	1988	1989
	437	232	35	35	35	35

Description: Purchase of local area network, personal computers, and graphics terminals.

Item: Payment Systems Improvement

Obligations:	1984	1985	1986	1987	1988	1989
	244	833	86	88	90	92

Description: Purchase, rental, and maintenance of online COM, COM microfiche duplicators, scanner, and automated fire suppression.

Item: Central Accounting System Enhancement and Expansion

Obligations:	1984	1985	1986	1987	1988	1989
	99	405	414	424	436	448

Description: Maintenance and rental of upgraded Honeywell system.

Soil Conservation Service

Group A - Items in SCS IRM Long-Range Plan[1/]

Item 1. Management

Obligation:	1984	1985	1986	1987	1988	1989
	435	365	660	660	260	260

IRM Long-Range Objectives: Management (MG) - MG-1, MG-2, MG-3

Description: To increase management participation for planning and implementing an agencywide integrated information system. This includes such activities as increased awareness of new technology, training to line and staff officers, and decisionmaking resulting in IRM staffing at appropriate organzational levels.

[1/] Revised from August 1983 version to reflect Congressional action on FY 1984 Budget and Departmental Estimate for FY 1985 Budget.

Item 2. Software

Obligation:	1984	1985	1986	1987	1988	1989
	1,917	3,500	7,270	8,010	8,940	10,000

IRM Long-Range Objective: Software (SW): SW-1

Description: To provide the necessary software to develop and maintain an integrated information system and agency unique software. These expenditures will result in automation of SCS activities at all organizational levels.

Item 3. Analytical Models

Obligation:	1984	1985	1986	1987	1988	1989
	925	1210	1240	870	770	770

IRM Long-Range Objectives: Analytical Models (AM) - AM-1, AM-2, and AM-3

Decription: To provide SCS with technical and management models that will assist in conserving and protecting the land, conserving water, and improving the quality of the Nation's water.

Item 4. Data Bases

Obligation:	1984	1985	1986	1987	1988	1989
	4,727	5,277	5,747	6,347	6,757	7,000

IRM Long-Range Objectives: Data Base (DB) - DB-1, DB-2, DB-3, and DB-4

Description: The planning, development, and operations of SCS maintained data bases that will meet data requirements of the many technical and management tools SCS uses to apply conservation on the land.

Item 5. Hardware

Obligation:	1984	1985	1986	1987	1988	1989
	4,958	12,758	12,375	12,400	1,900	1,900

IRM Long-Range Objective: Hardware (HW) - HW-1 and HW-2

Description: To provide hardware necessary to fully implement an SCS integrated information system. This includes distributed/decentralized hardware at all organizational levels to provide end user processing capability at appropriate levels of need.

Item 6. Telecommunications

Obligation:	1984	1985	1986	1987	1988	1989
	350	1,085	2,430	3,155	3,305	3,500

IRM Long-Range Objectives: Telecommunications - TC-1

Description: To establish an SCS data communications network capability within USDA's Departmental Telecommunications Network (DEPNET) to serve office automation and data processing requirements at all SCS organizational levels.

Item 7. Office Automation

Obligation:	1984	1985	1986	1987	1988	1989
	1,955	1,625	100	100	100	100

IRM Long-Range Objective: SCS Office Automation - OA-1

Description: To implement office automation - OA-1 throughout the Soil Conservation Service in phases coordinated with the USDA DEPNET contract schedule, and SCS hardware and software acquisition schedules.

Item 8. Records and Directives

Obligation:	1984	1985	1986	1987	1988	1989
	205	325	450	488	548	598

IRM Long-Range Objectives: Records and Directives (RD)-RD-1, RD-2, RD-3 and RD-4

Description: To improve efficiency and reduce costs of distribution and maintenance of directives, forms, and records and the processing of reports. This will be accompiished through automated technology to improve collection, storage, and dissemination of information.

Item 9. Employee Development

Obligation:	1984	1985	1986	1987	1988	1989
	3,300	3,550	5,050	7,500	7,500	7,500

IRM Long-Range Objective: Employee Development (ED) - ED-1 and ED-2

Description: To attain the required number of qualified personnel at all SCS organizational levels to support the development, maintenance, and operation of an integrated information system. This includes an increase of understanding of IRM technology among all non-IRM personnel.

Group B - - Items Not Included In SCS IRM Long-Range Plan

Item 1. National Finance Center Information Technology Portion

Obligation:	1984	1985	1986	1987	1988	1989
	1,994	2,054	2,116	2,179	2,244	2,311

IRM Long-Range Plan Objective: Not Included

Description: Information Technology Portion of National Finance Center (NFC) reimbursable charges to SCS.

Item 2. State and Local University Services

Obligation:	1984	1985	1986	1987	1988	1989
	1,186	1,245	1,269	1,293	1,316	1,340

IRM Long-Range Plan Objective: Not Included

Description: SCS IRM usage through cooperative agreements with State and local universities. This is done on an individual State basis with local universities and additionally a large cooperative National agreement with Iowa State University.

Statistical Reporting Service

GROUP A: Projects defined in IRM Plan

ITEM: Objective 2-1: Improved Utilization of Information Resources and Technology

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	170	115	90	380	380	380

DESCRIPTION: This project involves testing the effectiveness of computer assisted telephone interviewing and direct data entry with hand held computers that can be carried to the field to guide the interview and record the answers for later transmission to a host computer for analysis and summary.

ITEM: Objective 3-1: Electronic Dissemination

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	375	365	300	275	250	250

DESCRIPTION: The purpose of this project is to explore the feasibility of electronic dissemination of data and information for improved communication between SRS offices and between SRS offices and data suppliers and users.

GROUP B: Projects not defined in IRM Plan

ITEM: Teleprocessing Service Contracts

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3,546	3,721	3,117	3,117	3,117	3,117

DESCRIPTION: These contracts provide distributed data processing services to SRS. Recompetition of one major contract will be completed during FY84. Additional funding is included for FY84 and FY85 for conversion costs in case the current vendor is not reselected.

ITEM: Clustered Data Entry Systems

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	791	862	899	600	600	600

DESCRIPTION: This plan includes purchase conversion of two systems during FY84. Fifteen systems will be acquired through lease during FY84 and will be converted to purchase during FY85. These systems replace ten systems that have been under continuous lease for the past four years. A contract for leasing eight more systems will be recompeted during FY85 with conversion of those systems to purchase likely during FY86.

ITEM: Automation of EMS Systems

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	42	34	33	33	33	33

DESCRIPTION: This plan includes automation of the Payroll/Personnel System in conjunction with the National Finance Center development of an administrative record keeping system, purchase and operation of an automated procurement management system, and procurement of an automated budget reporting system.

World Agricultural Outlook Board

Item: ADP/Office Automation Systems

Obligations:	1984	1985	1986	1987	1988	1989
	26	12	--	--	--	--

Description: Long-Range IRM Plan

1. Purchase of two microcomputers to replace costly on-line data processing procedures on main-frame computers for $11 thousand in 1984.

2. Upgrade of Office Automation System since current word processors are obsolete for $15 thousand in 1984 and $12 thousand in 1985.

Department of Agriculture

Item: Software

Obligations:	1984	1985	1986	1987	1988	1989
	2	3	--	--	--	--

Description: Furniture needed for support of personal computers for $2 thousand in 1984 and $3 thousand for software for microcomputers and word processors in 1985.

DEPARTMENT OF THE INTERIOR

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Bureau of Land Management

1. Item: ADP/Data Communications Equipment Modernization Project

Obligations:	1984	1985	1986	1987	1988	1989
	300	200	7500	8500	9000	9000

Description: Analysis of needs and how to satisfy. Includes A-76 process and implementing decisions to give BLM the state-of-art- equipment.

2. Item: Wordprocessing equipment, purchased and leased

	1984	1985	1986	1987	1988	1989
Obligations:	1148	1307	950	650	325	325

Description: New Bureauwide system for word processing equipment.

3. Item: Telecommunications equipment purchased

Obligations:	1984	1985	1986	1987	1988	1989
	1302	1168	1300	1400	1300	1300

Description: Bureau telephone systems and radio equipment.

4. Item: Telecommunications Equipment Leased

Obligations:	1984	1985	1986	1987	1988	1989
	612	637	675	500	625	625

Description: Telecommunication (wire) equipment rental.

5. Item: Telecommunications leased services

Obligation: 11,600 12,649 13,000 14,000 15,000 15,000

Description: Leases telecommunications (wire) services including FTS, facsimile network and electronic mail service.

Minerals Management Service

Item: Additional Processing Capacity

Obligations:	1984	1985	1986	1987	1988	1989
	900	950	100	106	116	

Description: Increased processing required for systems development and installation. Acquisition in 84 and 85, maintenance then after.

Item: Telecommunications: Miscellaneous Hardware and Leased Lines

Obligations:	1984	1985	1986	1987	1988	1989
		560	800	350	380	380

Description: Network linking users to system.

Item: Additional data entry

Obligations:	1984	1985	1986	1987	1988	1989
	9500	10570	8910	7850	7850	7850

Description: On-going operations, maintenance, and development of AFS, PAAS, and BRASS software.

Item: Uninterrupted power supply

Obligations:	1984	1985	1986	1987	1988	1989
	250					

Description: Allows processing of critical applications to continue during power interruptions.

Item: Miscellaneous Computer Equipment, Hardware and System Software Maintenance.

Obligations:	1984	1985	1986	1987	1988	1989
	540	595	654	660	660	660

Description: Support equipment for increasing processing requirements. Acquisitions in 84 and 85, maintenance thereafter.

Item: New System (leased)

Obligations:	1984	1985	1986	1987	1988	1989
		700	800	900	1,000	1,000

Description: Integration of data entry, AFS, PAAS, and BRASS. Computer acquired in 85 and data entry converted in 86.

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Item: Post-Lease Sale Analysis System

Obligations:

1984	1985	1986	1987	1988	1989
200	200	200	200	200	200

Description: Post-Lease Sale Analysis System

Item: Mapping Software

Obligations:

1984	1985	1986	1987	1988	1989
100	200	100	200	200	250

Description: Mapping Software

Item: Reservoir models

Obligations:

1984	1985	1986	1987	1988	1989
300	300	200	350	350	350

Description: Reservoir models

Item: Miscellaneous Software

Obligations:

1984	1985	1986	1987	1988	1989
150	150	100	100	100	100

Description: Miscellaneous Software

Item: Replacement of mainframe

Obligations:

1984	1985	1986	1987	1988	1989
	2500				

Description: Replacement for current operation on USGS Multics computer.

Office of Surface Mining

CY = FY 83
BY = FY 84

ITEM: Inspections and Enforcement

OBLIGATIONS:

19CY	19BY	19BY+1	19BY+2	19BY+3	19BY-
300	500	300	200	200	200

Description:

OSM operates several applications to support the Agency's Inspection and Enforcement mandates. The Collection Management System was initiated in FY83 to comply with the Debt Collection Project. The systems will be expanded in FY84.

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ITEM: Technical Information Analysis

Obligations:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+
	300	325	325	325	325	325

Description:

The Branch of Technical Information and Analysis provides technical information on matters of coal mining, reclamation, and related matters, Additionally, the program maintains a current file of surface mining regulations.

Item: Mine Plan Review System

Obligations:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+
	300	200	200	200	200	200

Description:

The Surface Mining Control and Reclamation Act of 1977 mandates that the Secretary of the Interior take responsibility for mitigating the environmental impacts of surface mining for coal. The Secretaries mission is to get coal out of the ground in an environmentally sound way. This requires a detailed technical evaluation of mining and reclamation plans submitted to OSM in order for permits to be issued. The Mine Plan Review System supports mine plan review functions at the department, agency and state levels. The system maintains a repository of data comprising a portion of a mining and reclamation plan (permit application) which meets the requirements of the Surface Mining Control and Reclamation Act (SMCRA) of 1977.

ITEM Financial aand Administrative Support Systems

Obligations:	19CY	19BY	19BY+1	19BY+2	19BY+3	19BY+
	800	800	800	800	800	800

Description:

The maintenance and operation of the financial accounting, procurement, payroll and personnel, and reclamation fee collection systems for the Office of Surface Mining. The system's analysis design and implementation of enchancements of the current system.

OSM collects approximately $200 million a year from the Reclamation Fee Collection program.

Bureau of Reclamation

Item: Competitive Replacement of Central Computing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	5,270	6,300	1,780	3,500	3,000	1,000

Description: Purchase, rental, and maintenance costs associated with procurement of new central computing facility.

Item: Conversion and Training Services Contracts

Obligations:	1984	1985	1986	1987	1988	1989
	1,625	2,539	4,550	1,300	-	-

Description: Costs associated with application/file conversion, training, and interim computer services required to move from existing to target computing environment.

Item: Acquisition of Minicomputers

Obligations:	1984	1985	1986	1987	1988	1989
	3,765	1,203	1,262	1,327	1,399	1,478

Description: Purchase and maintenance costs associated with procurement of minicomputers for installation at selected Bureau field locations.

Item: Competitive Acquisition of Terminal Devices

Obligations:	1984	1985	1986	1987	1988	1989
	1,343	794	1,000	1,000	1,000	1,000

Description: Purchase and maintenance costs associated with the replacement and acquisition of additional TTY and graphics terminals.

Item: Data Communications Network Resources Acquisitions

Obligations:	1984	1985	1986	1987	1988	1989
	651	650	600	600	600	600

Description: Purchase, rental, and maintenance of a variety of data communications equipment, facilities, and services associated with support of increasing mission needs and network configurations in support of new local processing (distributed) and central site replacement.

U.S. Geological Survey - Water Resources Division

Item: Distributed Information System

Obligations:	1984	1985	1986	1987	1988	1989
	3142	4494	1100	1100	1100	1100

Description: As a result of pilot tests and advancement of the state of technology, in 1982 the Water Resources Division began a phased acquisition and installation of minicomputers which will eventually comprise a Distributed Information System. The installation is to be phased over about a 3-year period with about 20-25 installations per year. It is estimated that the system will be installed antionwide by the end of 1984.

Item: Mass Storage System

Obligations:	1984	1985	1986	1987	1988	1989
	300	300	200	1000	500	500

Description: Purchase, development and maintenance costs associated with procurement of a mass storage subsystem.

Item: Automated Graphic Output Systems

Obligations:	1984	1985	1986	1987	1988	1989
	-	125	50	1100	1400	600

Description: Purchase and maintenance costs associated with procurement of new automated graphics output systems.

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Item: Digital Data Edit System

Obligations:	1984	1985	1986	1987	1988	1989
	1550	1150	3850	1100	500	500

Description: Purchase and maintenance costs associated with procurement of new digital data edit system.

Item: Competitive Replacement of Midi-Computers

Obligations:	1984	1985	1986	1987	1988	1989
	-	700	200	2050	250	250

Description: Purchase and maintenance costs associated with procurement of new computing facility.

Item: Competitive Replacement of Telecommunication System

Obligations:	1984	1985	1986	1987	1988	1989
	75	200	600	500	200	

Description: Purchase, development and maintenance cost associated with procurement of a telecommunication system.

Item: Cartographic Data Base Management System and Support Software

Obligations:	1984	1985	1986	1987	1988	1989
	800	1000	1100	350	500	400

Description: Purchase, development and maintenance cost associated with procurement of a cartographic data base management system and support software.

Item: Digital Map Revision

Obligations:	1984	1985	1986	1987	1988	1989
	100	150	500	3000	100	

Description: Purchase, development and maintenance cost associated with procurement of a digital map revision system.

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Item: Digital Image Processing System

Obligations:	1984	1985	1986	1987	1988	1989
	200	1500	50		800	

Description: Purchase, development and maintenance cost associated with procurement of a digital image processing system.

Item: USGS Communication Network

Obligations:	1984	1985	1986	1987	1988	1989
	300	1000	2500	3200	3500	3500

Description: Acquisition of communications services to support distributed data processing.

Item: Digital PABX

Obligations:	1984	1985	1986	1987	1988	1989
	600	1200	1200	1200	1200	1200

Description: Acquisition of digital PABX to replace costly, antiquated switchboards at Reston and Menlo Park.

Bureau of Mines

Items Replacement of the Computer System in Denver

Obligations:	1984	1985	1986	1987	1988	1989
	...	1,500	3,000	3,000	...	...

Description:

Competitive procurement to replace the B 6800 computers.

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U.S. Fish and Wildlife Service

Item: Hardware systems and attendant software

Obligations:	1984	1985	1986	1987	1988	1989
	4675	6031	7443	2935	2774	2539

Description:

These figures represent major procurements as discussed in the narrative statement attached.

Item: Commercial Services

Obligations:	1984	1985	1986	1987	1988	1989
	913	1228	1230	1250	1500	1500

Description:

Costs associated with operation and maintenance of computer facility in support of Research and Development's Western Energy and Land Use Team, including studies, systems design/analysis and programming.

National Park Service

Item: Financial and Cost Tracking System (FACTS)

Obligations:	1984	1985	1986	1987	1988	1989
	$3,500	$4,500	$2,000	-	-	-

Description: Completion of the project to implement a GAO approved management system for the National Park Service. Obligations include hardware acquisition and maintenance.

Item: Teleprocessing Services Contract

Obligations:	1984	1985	1986	1987
	$ 780	$ 800	$1,000	$1,200

Description: This contract for ADP, recompeted in FY-1983, will have a five year life.

DEPARTMENT OF ENERGY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Weapons Activities - Research, Development, and Testing

Item: Satellite Terminal Services

Obligations:	1984	1985	1986	1987	1988	1989
	145	3,742	1,920	1,289	1,241	1,294

Description: This project will allow participation by the Nevada Operations Office and the Nevada Test Site in the Departmental OPMODEL program. Obligations in FY 1985 of $2.2 million will be for site construction and preparation to accommodate the terminal facilities in the unique Nevada environment.

Item: Integrated File Storage Expansion

Obligations:	1984	1985	1986	1987	1988	1989
	200	200	900	--	--	--

Description: This acquisition will augment the capacity and capabilities of the existing Intergrated File Storage System at Sandia National Laboratories, Albuquerque.

Item: Gateway Interface System

Obligations:	1984	1985	1986	1987	1988	1989
	230	410	220	290	250	320

Description: This system will consist of gateway computer equipment and interfaces to the Intergrated Computing Network (ICN) at the Los Alamos National Laboratory, Los Alamos, New Mexico.

Item: Management Information D/B Computer

Obligations:	1984	1985	1986	1987	1988	1989
	351	420	1,246	--	--	--

Description: This proposed acquisition is for a computer system to meet the administrative management workload of the Lawrence Livermore National Laboratory in the area of interactive usage and data base applications.

Item: Administrative DP Center

Obligations:	1984	1985	1986	1987	1988	1989
	370	1,450	--	--	--	--

Description: This acquisition is for a distributed set of minicomputers in support of the administrative/engineering computer system at Sandia National Laboratories, Albuquerque.

Item: Trunked Radio System

Obligations:	1984	1985	1986	1987	1988	1989
	500	500	1,000	1,000	800	--

Description: This is a five-year program to reduce the number of radio frequencies in use at the Nevada Operations Office and Test Site through the implementation of a shared trunked system. FY 1985 is the second increment of the program.

Item: Interactive Graphics System, Phase I

Obligations:	1984	1985	1986	1987	1988	1989
	1,300	--	--	--	--	--

Description: This acquisition is for CAD/CAM equipment to enhance the design/engineering process of the weapons program at the Lawrence Livermore National Laboratory.

Item: Interactive Graphics System

Obligations:	1984	1985	1986	1987	1988	1989
	2,200	4,000	2,900	--	--	--

Description: These systems will provide the capability to respond to the Los Alamos National Laboratory's increased design and manufacturing requirements.

Item: CAD System

Obligations:	1984	1985	1986	1987	1988	1989
	2,500	8,000	2,400	2,400	2,400	2,400

Description: These acquisitions will provide CAD equipment to support the design/engineering requirements of the weapons program at the Sandia National Laboratories.

Item: Storage System/Archival Memory, Phase I

Obligations:	1984	1985	1986	1987	1988	1989
	2,625	--	--	--	--	--

Description: This acquisition is for an on-line, archival storage at Lawrence Livermore National Laboratory.

Item: CLASS VI/VII Computer

Obligations:	1984	1985	1986	1987	1988	1989
	2,210	5,500	16,000	--	--	--

Description: This acquisition of a Class VI/VII scientific computing system is proposed to meet the requirements of defense programs at Los Alamos National Laboratory.

Item: Data Communications System

Obligations:	1984	1985	1986	1987	1988	1989
	3,069	2,163	1,905	1,110	1,905	1,010

Description: This system will provide intra- and inter-building, and intra- and inter-area communications for Sandia National Laboratory at Albuquerque, New Mexico, allowing laboratory staff access to computing resources in support of major weapons programs.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	3,600	3,600	3,600	4,200	4,200	4,200

Description: Replace the current electromechanical private branch exchange (PBX) systems with digital information exchange services at the Nevada Operations Office and the Nevada Test Site, Nevada.

Item: Satellite Terminal Services

Obligations:	1984	1985	1986	1987	1988	1989
	--	580	550	500	440	440

Description: This will provide for leased satellite terminal services at the Los Alamos National Laboratory, Los Alamos, New Mexico, for access to the Departmentwide OPMODEL system.

Item: VLSI Design Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	600	600	600	--	--

Description: This proposed acquisition will enhance a computer system used in support of the weapons program at Sandia National Laboratories, Albuquerque.

Item: Secure Video Conferencing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	--	925	100	100	100	100

Description: The facility will provide for fully secured video conferencing at the Los Alamos National Laboratory, Los Alamos, New Mexico, in conjunction with services available through the OPMODEL system.

Item: Perimeter Alarm System

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,000	--	--	--	--

Description: This system will provide arrays of seismic, acoustic, and magnetic sensors to protect the assembly facilities at the Nevada Test Site.

Item: CRAY-1 Memory Addition

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,400	--	--	--	--

Description: This proposed acquisition will increase the main memory of an installed CRAY-1 system at Sandia National Laboratories, Livermore.

Item: Output Station Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,500	--	--	--	--

Description: To increase the capacity and enhance the capability of the station that processes the printed and graphical output generated by the central and distributed computers of the Integrated Computing Network at Los Alamos National Laboratory.

Item: Class VII Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,560	6,240	13,120	--	--

Description: To acquire a Class VII or enhanced Class VI computer system to meet the need for increased capability for weapons and inertial confinement fusion programs at Lawrence Livermore National Laboratory. The capability of a Class VII is needed for those problems which are not tractable on a Class VI.

Item: Secure Electronic Conferencing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,800	50	50	50	50

Description: This programs consists of the necessary conferencing facilities at the Nevada Operations Office and the Navada Test Site to provide secure video, audio, and graphics conferencing.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,100	20,000	2,000	2,000	2,000

Description: Replacement of leased CENTREX service with a digital information system, competitively leased or purchased, at the Lawrence Livermore National Laboratory, Livermore, California.

Item: Class VII Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,300	4,500	14,600	--	--

Description: To acquire a Class VII or enhanced Class VI computer system to meet the need for increased capability for the weapons and inertial confinement fusion programs at Los Alamos National Laboratory. The capability of a Class VII is needed for those problems which are not tractable on a Class VI.

Item: Class VI/VII Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	3,200	4,800	4,800	4,600	--

Description: This proposed acquisition is for an enhanced Class VI or Class VII computer system to support the requirements of the weapons program at Sandia National Laboratories, Albuquerque.

Item: Interactive Graphics System, Phase II

Obligations:	1984	1985	1986	1987	1988	1989
	--	4,000	--	--	--	--

Description: This proposed acquisition is for additional CAD/CAM equipment to enhance the design/engineering process of the weapons program at Lawrence Livermore National Laboratory.

Item: Data Communications System

Obligations:	1984	1985	1986	1987	1988	1989
	--	6,800	13,200	16,100	9,100	2,200

Description: This project will provide an integrated intra- and inter-facility high speed voice and data network at the Los Alamos National Laboratory at Los Alamos, New Mexico. It will allow both onsite and offsite access to computing facilities, provide greater protection for sensitive information, and alleviate the economic impacts of the costs of commercial communications services.

Item: Text Editor

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	400	400	900	--

Description: This proposed acquisition will replace the text editing and phototypesetting system which will then represent outdated technology.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	400	4,800	4,800	6,500

Description: This proposed acquisition is for a Class VII computer system to meet both the increased capacity and capability requirements of the weapons program.

Item: IFS Processor Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	480	480	700	--

Description: This proposed acquisition is for upgrading the processors in the Integrated File Storage System.

Item: Network Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	500	750	500	500

Description: This proposed acquisition is for upgrading the file storage systems and the network which links it to the computer system.

Item: Management Information Data Base

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	788	3,057	--	--

Description: This proposed acquisition is for replacement of the site's central management information computer system.

Item: High Performance Graphics System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,000	--	600	700

Description: This proposed acquisition for interactive graphics equipment will increase the quality and provide greater capacity for graphics output.

Item: Network Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,000	2,500	--	--

Description: This proposed acquisition is for upgrading the scientific network capacity and capability.

Item: CHORS II

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,200	--	--	--

Description: This proposed acquisition will provide additional capacity in the subsystem that produces hardcopy output (printed and microfilm) for the computer network.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,560	6,240	6,240	8,540

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons and inertial confinement fusion programs.

Item: Terminals/Network

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	2,000	--	--	--

Description: This proposed acquisition is for additional terminals and enhancing the site's computer network.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	2,300	4,500	14,600	--

Description: To provide additional Class VII computing capability and capacity to the weapons and inertial confinement fusion programs.

Item: Storage System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	2,500	--	--	--

Description: This proposed acquisition will provide a mass storage system which includes control computers and buffer/staging storage to support the site's computer network.

Item: Mass Storage

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	3,000	--	--	--

Description: This proposed acquisition will provide storage and control equipment to enhance online capacity and bandwidth of the mass storage system.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	3,120	6,240	12,120	--

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons and inertial confinement fusion programs.

Item: CAD/CAM

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	5,760	--	--	--

Description: This proposed acquisition is for an additional CAD/CAM equipment to enhance the design/engineering process of the weapons program.

Item: Scientific System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	800	4,800	4,800

Description: This proposed acquisition is for a Class VII computer system to meet the requirements of the weapons program.

Item: COM Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,000	--	--

Description: This proposed acquisition is for replacing the computer output microfilm system with a higher resolution color system.

Item: Terminal/Network

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,000	--	--

Description: This proposed acquisition is for additional terminals and enhancing the site's computer network.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	3,120	6,240	3,120

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons and inertial confinement fusion programs.

Item: Storage System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	4,500	--	--

Description: This proposed acquisition is for replacement of the short and intermediate storage system which will be over ten years old.

Item: CAD/CAM

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	5,250	--	--

Description: This proposed acquisition is for additional CAD/CAM equipment to enhance the design/engineering process of the weapons program.

Item: Terminals/Network

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,000	--

Description: This proposed acquisition is for additional terminals and enhancing the site's computer network.

Item: Mass Storage

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,300	--

Description: To enhance the capacity of the mass storage facility in support of the weapons and inertial confinement fusion programs.

Item: Mass Storage

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,500	--

Description: This proposed acquisition will augment the capacity of the existing mass storage system.

Item: Output Station

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,500	--

Description: To acquire equipment to increase the capacity and enhance the capability of the station that processes the printed and graphical output generated by the site's computer network.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	2,300	4,500

Description: To provide additional Class VII computing capability and capacity to the weapons and inertial confinement fusion programs.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	2,400	4,800

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons program.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	3,300	6,000

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons and inertial confinement fusion programs.

Item: CAD/CAM

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	5,200	--

Description: This proposed acquisition is for additional CAD/CAM equipment to enhance the design/engineering process of the weapons program.

Item: Terminal/Network

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,000	--

Description: This proposed acquisition is for additional terminals and enhancing the site's computer network.

Item: Output Devices

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	2,000

Description: This proposed acquisition is to enhance the printed and microfilm output subsystems in the computer network.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	2,400

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons program.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	3,300

Description: This proposed acquisition is for an additional Class VII computer system to meet the requirements of the weapons and inertial confinement fusion programs.

Weapons Activities - Production and Surveillance

Item: Satellite Terminal Services

Obligations:	1984	1985	1986	1987	1988	1989
	199	1,524	1,530	1,831	1,191	1,191

Description: This project will allow participation in the Deparmental OPMODEL program by the Pinellas Plant at Pinellas, Florida, providing for leased satellite terminal services.

Item: CAD/CAM Interactive Graphics System

Obligations:	1984	1985	1986	1987	1988	1989
	620	480	1,100	1,100	--	--

Description: A Class IV computer system and the appropriate peripherals to support the interactive graphics requirements at the Pantex Plant.

Item: Central Processor Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	800	2,300	1,964	1,964	1,164	--

Description: To acquire a Class V computer system to augment the currently-installed IBM 3033 which has insufficient capacity to meet the programmatic workload at the Kansas City Plant.

Item: Building Energy Management System

Obligations:	1984	1985	1986	1987	1988	1989
	886	114	114	114	114	114

Description: This is Phase II of the overall Building Management System, consisting of the expansion of the system to many additional control and monitoring points throughout the Pinellas Plant at Pinellas, Florida.

Item: Secure Electronic Conferencing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	900	50	20	110	--	10

Description: This will provide secure video, audio, and graphics conferencing capabilities at the Rocky Flats Plant, Rocky Flats Plant, Rocky Flats, Colorado, to interface with Departmental OPMODEL capabilities.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	2,005	2,400	2,500	2,500	2,500	2,500

Description: This represents the Department of Energy (DOE) share of a joint General Services Administration/DOE/Internal Revenue Service/ Department of Agriculture Information Exchange System at Kansas City, Missouri.

Item: Automated Energy Management System

Obligations:	1984	1985	1986	1987	1988	1989
	2,073	1,009	55	55	55	55

Description: This system replaces an existing utilities monitoring system at the PANTEX Plant at Amarillo, Texas, and will provide for a payback in energy cost savings in approximately 3.5 years.

Item: Secure Communications (SECOM) System Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	4,015	4,445	2,584	2,852	2,052	2,464

Description: This represents the continuing upgrading of the SECOM System, which supports the transportation of nuclear material throughout the country, and is operated by the Transportation Safeguards Division of the Albuquerque Operations Office.

Item: Factory Management System

Obligations:	1984	1985	1986	1987	1988	1989
	--	100	3,000	--	--	--

Description: A Class IV central computer and appropriate peripherals to support developmental and pilot factory management and graphics needs of the Pantex Plant.

Item: Power Control System

Obligations:	1984	1985	1986	1987	1988	1989
	--	260	1,740	2,000	--	--

Description: The Power Control System will provide a computerized control and monitoring for plant operation at the Y-12 Plant at Oak Ridge, Tennessee. It will allow the controlling of the difference between peak demand and average load, and result in a savings of peak demand penalty charges.

Item: Data Distribution System

Obligations:	1984	1985	1986	1987	1988	1989
	--	875	600	600	600	600

Description: This program will be the follow-on local data distribution system for interface with the OPMODEL satellite terminal to be installed at the Kansas City Plant at Kansas City, Missouri, in FY 1984. It will provide for integrated access to the system.

Item: Electronic Conferencing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,150	15	17	18	20

Description: Provide an electronic conferencing facility with fully secure video, audio, and graphics capability to interface with the OPMODEL system capabilities at the Kansas City Plant, Kansas City, Missouri.

Item: Shop Floor Data Systems, Phase 2

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,500	--	--	--	--

Description: This proposed acquisition of two distributed processing systems will expand the capabilities for customized departmental shop floor management and data collection at the Kansas City Plant.

Item: Safeguards System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,300	7,600	5,600	--

Description: Safeguards is a broad range of systems designed to increase security and enhance the protection of special nuclear materials at the Y-12 Plant at Oak Ridge, Tennessee.

Item: Shop Floor Data Systems

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	2,500	--	--	--

Description: To acquire two distributed processing systems to expand the capabilities for customized depart-mental shop floor management and data collection.

Item: Class V

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	3,500	--	--	--

Description: This planned acquisition will replace the site's existing computer system with a larger processor to meet the increased plant production and on-line user's needs.

Item: Central Computer Facility System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	4,300	--	--	--

Description: This central computer facility system will serve as a general purpose computer system for fulfilling both programmatic and common support requirements. It will support the rapidly growing requirements in on-line processing during the prime shift and also provide a backup to the site's existing computer system.

Item: Replacement for General Purpose CPU

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	7,000	--	--	--

Description: To acquire a replacement computer for the site's computer which will (1) be technically obsolete due to the inability to run the current systems software, and (2) not able to be upgraded to provide the needed capacity to meet workload requirements.

Item: Classified General System Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	265	1,269	--

Description: Technological obsolescene and the age of the existing classified general purpose computer system at this site necessitate its replacement in FY 1987.

Item: Unclassified Processor Addition

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	362	1,862	--

Description: This acquisition is to enhance an unclassified processor purchased in FY 1985 and acquire an additional unclassified processor to absorb the planned continued migration of unclassified information from the classified general purpose system.

Item: Secure Network Capability

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,050	--	--

Description: A high-speed communications bus and a security controller to connect various "work" computers to the integrated classified and unclassified network at this site.

Item: Timeshare System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,500	--	--

Description: This acquisition is for upgrading the storage devices, communications equipment, and terminals used with the central timesharing computer system.

Item: Shop Floor Data Systems

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	2,500	--	--

Description: To acquire two distributed processing systems in order to expand the capabilities for customized departmental shop floor management and data collection.

Item: Upgrade to IGS Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	2,700	--	--

Description: This proposed acquisition will enhance the capability to meet the engineering and manufacturing requirements of the facility.

Item: CPU Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	1,500	--

Description: This acquisition covers upgrading the site's central and memory system and selected peripherals.

Item: Shop Floor Data Systems

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	2,500	--

Description: To acquire two distributed processing systems in order to expand the capabilities for customized departmental shop floor management and data collection.

Item: Class III

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	3,200	--

Description: To replace the site's unclassified and classified computer systems with equipment of greater capacity and newer technology.

Item: Class V

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	5,500	--

Description: Class V computer system to replace the site's existing central computer facility.

Item: CPU and Peripherals for General Purpose System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	7,000	--

Description: To augment the then existing Class V general purpose computer with a Class V computer system in order to meet the growing workload requirements of the site.

Item: Timeshare Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	1,500

Description: This proposed acquisition is for upgrading the storage devices, communications equipment and terminals for the site's central timesharing computer.

Item: Shop Floor Data Systems

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	2,500

Description: To acquire two distributed processing systems in order to expand the capabilities for customized departmental shop floor management and data collection.

Item: Upgrade to Factory Management Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	2,700

Description: An additional CPU, channels and peripherals to upgrade the site's Class IV factory management system.

Item: Replacement of Unclassified Computers

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	3,000

Description: Replacement of the two existing CPU's and associated peripherals which will have reached the end of their system life. This new system will support existing and projected unclassified workload.

Materials Production

Item: Upgrade Central Computer

Obligations:	1984	1985	1986	1987	1988	1989
	1,755	--	--	--	--	--

Description: This proposed procurement will provide additional memory, channels, and processing power to an existing Class IV computer system at the Savannah River Laboratory.

Item: Perimeter Security Improvement

Obligations:	1984	1985	1986	1987	1988	1989
	2,000	1,400	--	--	--	--

Description: This project is to complete an incremental upgrade of the primary and secondary Intrusion Protection Systems at the Idaho Fuel Processing Facility, providing high speed video switching facilities.

Item: Security System Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	2,540	3,698	1,010	410	210	210

Description: This project will provide intrusion alarms, closed circuit television, and audio communications for the operational nuclear reactor at the Hanford site at Richland, Washington.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	2,975	3,391	3,421	3,452

Description: Replace existing individual voice PBX switches with digital information exchanges for integrated voice/data services at the Richland/Hanford facility at Hanford, Washington.

Item: Replace Central CPU

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	--	--	4,500

Description: This proposed acquisition is required to meet program requirements for Class VI capability.

Defense Waste and By-Products Management

Item: Local Electronic Conferencing Facility

Obligations:	1984	1985	1986	1987	1988	1989
	636	636	408	40	40	40

Description: This system will provide for electronic conferencing capabilities at the Hanford site at Richland, Washington. It will link laboratory, program office, and contracting elements in support of a development engineering design unit.

Item: Supervisory Control and Data Acquisition System (SCADA)

Obligations:	1984	1985	1986	1987	1988	1989
	900	1,550	450	--	--	--

Description: The SCADA System will provide remote control indication and monitoring of electrical parameters of substations of the utility system at the Hanford site at Richland, Washington. The operations of nine primary substations will be controled from Utility Dispatch Headquarters.

Item: Emergency Radiological Detection System (ERDS)

Obligations:	1984	1985	1986	1987	1988	1989
	1,542	1,601	1,587	281	281	281

Description: The system will monitor radiological and meterological conditions and report a radiological release or an abnormally high dose rate at the Hanford site at Richland, Washington. It will also provide site-wide communications facilities topermit coordinated and consistent response to an emergency.

Item: Satellite Terminal Services

Obligations:	1984	1985	1986	1987	1988	1989
	--	50	720	600	600	600

Description: This will provide for lease satellite terminals services at the Hanford site at Richaland, Washinton, for participation in the Departmentwide OPMODEL network.

Item: Fire Alarm System

Obligations:	1984	1985	1986	1987	1988	1989
	--	3,288	--	--	--	--

Description: Install a modern fire alarm system, which will be integrated with backbone telecommunications network at the Hanford site at Richland, Washington.

Naval Reactors Development

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	1,826	2,152	2,152	2,152	2,152	2,152

Description: Replace a leased electromechanical voice switch at the Bettis Atomic Power Laboratory, Pittsburgh, Pennsylvania, with a competitively acquired digital information exchange.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	5,400	--	--	--	--

Description: Competitively acquire a digital information exchange to replace a leased obsolete electromechanical switch serving the Knolls Atomic Power Laboratory at Schenectady, New York.

Item: CDC 7600 Replacement Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	10,000	--	--	--

Description: To replace two CDC 7600 systems at the Knolls Atomic Power Laboratory which are technically obsolete (over 15 years old) and incurring maintenance reliability problems.

Item: Dual 7600 Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	10,000	--	--	--

Description: To replace two DCD 7600 systems at the Bettis Atomic Power Laboratory which are technically obsolete (over 15 years old) and incurring maintenance reliability problems.

Item: Mass Storage

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,500	--	--

Description: To acquire a mass storage system with a support processor to provide site's integrated computing network.

Item: Mass Storage System

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,500	--	--

Description: To acquire a mass storage system with a support processor to provide storage for the site's integrated computing network.

Item: CYBER 205 Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	4,000	--	--

Description: To add two million words of memory and two vector pipelines to an existing CDC CYBER 205 to enhance its throughput and ability to process larger problems.

Item: CYBER 205 Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	4,000	--	--

Description: To add two million words of memory and two vector pipelines to an existing CDC CYBER 205 to enhance its throughput and ability to process larger problems.

Solar Energy

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	110	1,000	10	10	10	10

Description: Provide an information exchange system for a new facility to be constructed at the Solar Energy Research Institute, Golden, Colorado. The initial system will serve 700 stations with growth potential to 2,000 stations.

Breeder Reactor Systems

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,030	1,630	1,630	1,630	1,630

Description: Replacement of currently leased CENTREX service with a digital Information Exchange System at the Argonne National Laboratory at Argonne, Illinois.

Item: Class VI

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,080	1,440	1,440	1,440

Description: This acquisition is required to meet program requirements for greater capability at this site.

Item: Scientific CPU

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	3,400	--	--	--

Description: This proposed acquisition will provide the site with the capability of meeting program requirements for large scale scientific and engineering computational needs.

Magnetic Fusion

Item: PDP-10 System Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	1,500	--	--	--	--	--

Description: This proposed acquisition is to upgrade the capacity of the PDP-10 computer system at the Oak Ridge National Laboratory by adding an additional processor.

Item: Class VI/VII Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,300	3,800	3,800	3,800	3,800

Description: This proposed acquisition will provide a scientific computer with additional capacity and improved capability to meet growing program requirements at the National Magnetic Fusion Energy Computer Center.

Item: Large CPU

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	306	3,672	3,672	3,366

Description: This item will provide a Class VI or VII central processor in the unclassified environment for scientific work.

Item: File Management CPU

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,000	--	--	--

Description: This item will provide for a dedicated file management computer which is considered vital to the continued success of the central facility.

Item: System Processor Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,082	--	--	--

Description: This item will augment the existing KL10 processors at one of the user service centers by adding an additional processor.

Department of Energy

Item: KL-10 Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,200	--	--	--

Description: This item will replace the KL-10 computer at one of the user service centers. The replacement is needed to accommodate growth in three dimensional codes which require ten to one hundred times the processing time and data of two dimensional codes.

Item: File Management System Enhancement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,200	--	--

Description: This item will provide for increases in file storage capacity in keeping with the anticipated exponential growth in demand.

Item: Central Storage Computer Center

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,500	--	--

Description: This proposed acquisition is for expansion of a planned mass storage system.

Item: Class VII

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,785	3,570	3,570

Description: A Class VII scientific computer with additional capacity and improved capability will be acquired to meed growing program requirements.

Basic Energy Sciences

Item: Enhanced Class VI or Class VII Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	--	3,500	3,500	3,500	3,500	--

Description: This item will provide for lease and maintenance of an enhanced Class VI or Class VII computer facility to be shared among Energy Reserach programs.

Uranium Enrichment Activities

Item: Replacement Computer System, K-25

Obligations:	1984	1985	1986	1987	1988	1989
	--	4,000	--	--	--	--

Description: This proposed acquisition will replace a 12-year old computer at the Oak Ridge Gaseous Diffusion Plant with a more reliable state-of-the-art system.

Item: Class III

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,850	--	--	--

Description: This acquisition is for replacement of existing PDP-10's and increased capacity of the site's computing equipment.

Item: Class VI

Obligations:	1984	1985	1986	1987	1988	1989
	842	3,365	3,365	2,524	--	--

Description: This proposed acquisition is for a Class VI scientific computer.

Item: Class III

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,760	--	--

Description: This item will increase capacity by the addition of a Class III computer to handle the anticipated workload increases.

High Energy Physics

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	668	500	550	605	665	720

Description: The system will replace an obsolete electromechanical switching system with a competitively acquired digital information system at the Stanford Linear Accelerator Center, Stanford, California.

Item: IBM 3081-K Computer System Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	700	2,000	2,000	2,000	--

Description: This proposed acquisition is for upgrading the computer system at Stanford Linear Accelerator Center to a Class V system plus additional disk and tape peripherals.

Item: Dual Class V

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	5,000	5,000	--	--

Description: This proposed acquisition will provide greater capability to meet increased scientific computing requirements and to replace older technology computers.

Item: IBM 308X Replacement

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	7,500	--	--

Description: This proposed acquisition is for replacing and installed computer system with one that enhances computer interactive capability and capacity.

Item: New Architecture M/P

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	12,000	--	--

Description: This proposed acquisition is a new architecture, multiple CPU system to provide for increased data acquisition needs related to experiments and to replace the existing system reaching the end of its technological life.

Nuclear Physics

Item: Class III Administrative Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	135	271	271	271	271

Description: This proposed acquisition is for a Class III computer system for administrative support at the Lawrence Berkely Laboratory.

Item: Class IV Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	640	640	640	640	640

Description: This proposed acquisition is for replacement of an obsolete scientific computer system with a new state-of-the-art Class IV system at the Lawrence Berkeley Laboratory.

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	800	675	675	675	675

Description: Replacement fo currently leased central eschange (CENTREX) service with a competitively acquired lease or purchased digital information exchange system at the Lawrence Berkeley Laboratory, Berkeley, California.

Management and Administration

Item: Departmental Standardized Core Accounting System (DISCAS) Minicomputers

Obligations:	1984	1985	1986	1987	1988	1989
	162	675	732	844	171	--

Description: Acquisition of minicomputers at Headquarters and DOE filed office to implement a Departmental Standardized Core Accounting System.

Department of Energy

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	4,000	4,000	4,000	4,000	4,000

Description: Replacement of currently leased CENTREX service with a competitively acquired lease/purchase digital information system at DOE Headquarters, Washington, DC, and Germantown, Maryland.

Item: Replacement Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	3,460	--	--	--

Description: To acquire a replacement system for the Class IV computer system installed at DOE Headquarters which will provide the needed increase in capacity and the ability to run the latest operating system.

Item: Disk Subsystem Upgrade

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,200	--	--

Description: This acquisition will upgrade the disk capacity of an existing system and replace older units.

Fossil Energy Research and Development

Item: Class III Computer System

Obligations:	1984	1985	1986	1987	1988	1989
	--	2,500	--	--	--	--

Description: This proposed computer system will provide and interactive in formation management system to be used for project management, data base management, mathematical modeling, simulation, and systems analysis at the Morgantown Energy Technology Center.

Energy Information

Item: High Density Disks and Controllers

Obligations:	1984	1985	1986	1987	1988	1989
	500	700	700	700	700	700

Description: This item is planned to conserve costs, replace older equipment, increase capacity, and improve internal operating performance at the Energy Information Administration.

Item: Class V Computer

Obligations:	1984	1985	1986	1987	1988	1989
	--	1,400	1,400	1,400	1,400	1,400

Description: Augmentation to the existing system via acquisition of a Class V computer is planed to meet increased program requirements of the Energy Information Administration.

Item: Communications Processors

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	500	500	--	--

Description: Purchase of latest technology to support new processor, automated preparation of publications, automated office support systems, and the latest in the Department's internal communications techniques.

Item: Computer Terminal Systems

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	1,000	1,000	1,000	1,000

Description: Recompetition of existing computer terminal systems to maintain existing terminals with options to purchase newer technology.

Item: Magnetic Tape Units

Obligations:	1984	1985	1986	1987	1988	1989
	--	--	--	1,000	--	--

Description: Purchase to replace existing units that will be over ten years old.

Power Marketing

Item: Information Exchange System

Obligations:	1984	1985	1986	1987	1988	1989
	--	5,140	640	640	640	640

Description: This represents the competitive acquisition of a digital information system for a new Federal building at Portland, Oregon, serving approximately 2,100 employees of the Bonneville Power Administration.

U.S. ARMY CORPS OF ENGINEERS

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Replacement of the Corps' Standard General Purpose Computer Systems, CEAP-I (Formerly CE-80)

Obligations:	1984	1985	1986	1987	1988	1989
Civil	0	200	7,360	18,671	10,102	9,727
Military	0	0	7,359.5	18,671.9	10,101.9	9,726.9

Description: Civil/Military total investment costs required for the Corps of Engineers Automation Plan, Objective I (CEAP-I) Project providing a system of 57 local processors at 53 Corps Field Operating Activities (FOA), tailored to specific site workload, with a communications network to support data communications traffic among sites and with Corps Headquarters; a commercial teleprocessing services contract will be acquired to support large-scale scientific and engineering applications to all remote sites from the vendor site.

Item: Teleprocessing Services Contract

Obligations:	1984	1985	1986	1987	1988	1989
	3,400	3,200	2,800	2,500	2,700	5,000

Description: Computer services acquired under TSP contract to access and to process Corps-wide applications.

Item: Automated Drafting System

Obligations:	1984	1985	1986	1987	1988	1989
	3,700	3,700	4,200	0	0	0

Description: Purchase and maintenance costs associated with the procurement of new Automated Drafting Computer System.

Item: Acquisition of Water Control System

Obligations:	1984	1985	1986	1987	1988	1989
	1,500	2,500	2,000	0	0	0

Description: Purchase of Water Control minicomputers and maintenance.

ENVIRONMENTAL PROTECTION AGENCY

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Item: Telecommunications Network

Obligations:	1984	1985	1986	1987	1988	1989
	4,114	4,845	7,800	5,000	5,000	5,000

Description: EPA's nationwide telecommunications network links to the EPA central processors to distributed processing sites and remote terminals. EPA plans to issue a competitive procurement to upgrade it telecommunications support for remote processing sites during 1984. This upgrade includes full Systems Network Architecture (SNA) support for EPA headquarters, the regional offices and other sites with high volume, high speed data transmission requirements. A major goal of the ADP Modernization Program is to improve access to mainframe services by the EPA regions and other field sites. Achievement of this goal requires, among other things, that EPA upgrade and standardize telecommunications between the National Computer Center and the distributed processing sites.

Item: Equipment Acquisitions and Maintenance

Obligations:	1984	1985	1986	1987	1988	1989
	10,018	11,160	12,700	11,200	11,200	11,200

Description: Equipment acquisitions and maintenance includes the lease and/or purchase of equipment and associated operating systems that provide central and distributed processing services to EPA program and regional offices. It also includes the contractual costs associated with maintaining this equipment. The Agency has underway a comprehensive program to modernize its information processing resources. This program, which will be completed in Winter of 1985, will bring new computing capability to EPA program and regional offices. The program includes upgrades to both mainframe and distributed processing.

The mainframe program is well on the way to implementation. EPA is currently involved in a competitive procurement to replace and expand the IBM-compatible mainframes with modern IBM-compatible technology. EPA will procure an IMB-compatible central processor which is minimally 30% larger than current capacity. This procurement will provide for periodic expansions of the processor as needed. Over its life cycle, processor capacity will increase approximately 257% above the current level. EPA anticipates that the installation of the new processor will occur in the summer of 1984.

EPA plans to issue a competitive procurement for the modernization of its distributed processing network during 1984. The distributed processing program will: (1) extend full, IBM-compatible mainframe service to the EPA regions and other major distributed sites; (2) further distribution of minicomputer functions that are not mainframe oriented by using office computers, eventually tied into Local Area Networks (LANs); and (3) integration of microcomputers or "desk top" computers into the distributed network.

EPA laboratories must also embark upon and ADP modernization program since like the rest of EPA they have inadequate capacity and obsolete technology. Research managers and ADP professionals are presently working on a strategy for modernizing laboratory computing technology. This strategy will identify, for the labs as a group, technology able to meet all or most lab needs for some time into the future.

Item: Systems Operation and Support

Obligations:	1984	1985	1986	1987	1988	1989
	17,021	22,054	22,100	22,100	22,100	22,100

Description: Systems operations and support includes services acquired through a facility management contract and an Agency-wide task order contract. The facility management contract provides on-site services required to manage the central data processing facility and distributed processing facilities in EPA laboratories and regions. The Agency-wide task order contract provides a full range of on-site services required to operate and maintain major EPA applications systems, including routine programming, data handling and user support.

Item: Studies and Analyses

Obligations:	1984	1985	1986	1987	1988	1989
	1,611	2,100	2,100	2,100	2,100	2,100

Description: Studies and analyses are profided through two Agency-wide task order contracts. One contract provides for management information requirements analysis and feasibility studies. The studies performed under this contract analyze information requirements and design information systems both automated and manual. The second contract provides expertise required for technical feasibility and design work concerning hardward configuration, software selection and optimization, teleprocessing design and office automation.

Item: Applications Systems Development and Enhancements

Obligations:

1984	1985	1986	1987	1988	1989
10,603	10,107	10,200	10,200	10,200	10,200

Description: Applications systems development and enhancements are provided through Agency-wide task order contracts. These contracts provide expertise in data base management software, graphics, statistical models and other systems development specialties.

Item: Timeshare Services to Support the Motor Vehicles Emission Laboratory at Ann Arbor, Michigan

Obligations:

1984	1985	1986	1987	1988	1989
350	350	420	420	420	420

Description: Data processing services acquired from University of Michigan support the development of motor vehicle mileage estimates and emission standards for the Agency's Mobile Source Program.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

Kennedy Space Center

ITEM KDMS MINIS

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	1000.0	1000.0	1197.0	349.0	380.0	400.0

DESCRIPTION PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM KDMS NETWORK

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	1405.0	1405.0	120.0	20.0	20.0	30.0

DESCRIPTION PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM KDMS WORKSTATIONS

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	1444.0	1444.0	1050.0	530.0	565.0	570.0

DESCRIPTION PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM DE CAE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	800.0	100.0	150.0	200.0	500.0	150.0

DESCRIPTION PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM DE VAX UPDATE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	200.0	100.0	150.0	200.0	300.0	150.0

DESCRIPTION PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: BASE OPNS CONRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	524.0	685.0	280.0	600.0	335.0	323.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: KDMS SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2307.0	2307.0	2456.0	2163.0	1721.0	1800.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: BASE OPNS CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1720.0	2088.0	2194.0	2295.0	2398.0	2504.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: KDMS SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	348.0	375.0	404.0	440.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: BASE OPNS CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	220.0	230.0	250.0	270.0	290.0	300.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: KDMS SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3949.0	3808.0	2002.0	1000.0	650.0	700.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: BASE OPNS CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3230.0	3546.0	4140.0	4330.0	4525.0	4725.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: HONEYWELL 66/60

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
128.0	136.0	146.0	305.0	319.0	333.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: BASE OPNS CONTRACT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
784.0	848.0	941.0	1023.0	1081.0	1139.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: DE ADS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
226.0	245.0	253.0	263.0	273.0	282.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: DE DESIGN CAPABILITY FOR CAE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
100.0	125.0	130.0	150.0	250.0	300.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: DE VAX 11/780

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
120.0	150.0	175.0	200.0	250.0	300.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: KDMS HARDWARE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	1518.0	1630.0	1748.0	1800.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS MOD COMP 11/45

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
2052.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: SECOND LINE GSE (GROUND SUPPT EQUIP).

ITEM: CCMS CPU UPGRADE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	400.0	1000.0	3400.0	3400.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SECOND LINE GSE (GROUND SUPPT EQUIP).

ITEM: AUG KDMS DPS8

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
409.0	166.0	126.0	137.0	149.0	156.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS, AND SECOND LINE GSE (GROUND SUPPT EQUIP).

ITEM: DOD SECURITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
745.0	1105.0	1160.0	1212.0	1267.0	1324.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS SUST ENG

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
4639.0	3787.0	3975.0	4153.0	4339.0	4536.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS SUST ENG P/L

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
435.0	443.0	456.0	477.0	498.0	521.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS

ITEM: CDS CSC SUPPORT CONTRACT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
6409.0	6946.0	7293.0	7622.0	7964.0	8322.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS

ITEM: CDS SUST ENG

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
958.0	917.0	744.0	800.0	872.0	911.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS CSC SUPPORT CONTRACT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
6408.0	6709.0	7045.0	7362.0	7693.0	8040.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF SPACE SHUTTLE OPERATIONS.

ITEM: DOD SECURITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	522.0	631.0	663.0	693.0	724.0	757.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF SPACE SHUTTLE OPERATIONS.

ITEM: CCMS S/W SECURE COMM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	460.0	192.0	202.0	212.0	222.0	232.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS S/W PAYLOADS CITE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	435.0	443.0	456.0	477.0	498.0	521.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CDS CSC SUPPORT CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2831.0	2999.0	3149.0	3291.0	3439.0	3594.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CDS SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	783.0	1076.0	1130.0	1181.0	1235.0	1290.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF SPACE SHUTTLE OPERATIONS.

ITEM: CDS SECURE SYS ANAL

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	380.0	405.0	435.0	659.0	689.0	720.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS S/W PRODUCTION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2059.0	1633.0	1308.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SECOND LINE GSE (GROUND SUPPT EQUIP).

ITEM: DOD SECURITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	894.0	1223.0	1284.0	1341.0	1402.0	1465.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CCMS SUPPORT CONTRACT (CSC)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	6334.0	6590.0	6920.0	7232.0	7557.0	7897.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CDS SUPPORT CONTRACT (CSC)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	819.0	867.0	910.0	951.0	994.0	1039.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CDS HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3903.0	4127.0	4363.0	4560.0	4765.0	4978.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: SECURE CDS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	800.0	891.0	953.0	1020.0	1066.0	1114.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: EVO OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	156.0	172.0	189.0	208.0	228.0	250.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: CENTAUR PROCUREMENT.

ITEM: EVO UPGRADE SYS/ANAL

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	333.0	366.0	400.0	445.0	470.0	512.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: CENTAUR PROCUREMENT.

ITEM: EVO DPS 6, 8, TERM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	154.0	168.0	185.0	208.0	221.0	241.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: CENTAUR PROCUREMENT.

Johnson Space Center

ITEM: XEROX 9700'S

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	105.0	227.0	245.0	265.0	283.0	311.0

DESCRIPTION: LEASE OF NEW HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION, SPACE SHUTTLE OPERATIONS, AND RESOURCE AND PROGRAM MANAGEMENT.

ITEM: UNIVAC 1100 DISKS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	70.0	870.0	1054.0	1097.0	1143.0	1191.0

DESCRIPTION: LEASE OF AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: PERMANENT FILE SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	450.0	900.0	900.0	900.0	900.0

DESCRIPTION: LEASE TO OWNERSHIP OF NEW HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: ARRAY PROCESSORS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	672.0	1344.0	1344.0	1344.0	1344.0

DESCRIPTION: LEASE TO OWNERSHIP OF NEW HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: 1181D LEASE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	319.0	425.0	425.0	425.0	425.0	425.0

DESCRIPTION: LEASE TO OWNERSHIP OF AUGMENTATION HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: 1182E REPLACE BY 1191E

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	711.0	948.0	948.0	948.0	948.0

DESCRIPTION: LEASE TO OWNERSHIP OF REPLACEMENT HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: 1184M REPALCED BY 1193M

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1947.0	2124.0	2124.0	2124.0	2124.0

DESCRIPTION: LEASE TO OWNERSHIP OF REPLACEMENT HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: IBM 4341 PERIPHERALS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
90.0	270.0	300.0	330.0	360.0	400.0

DESCRIPTION: LEASE TO OWNERSHIP OF REPLACEMENT HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: ADDITIONAL IBM 3083 SYSTEM

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
2673.0	390.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OCD PAYLOAD SUPPORT, AND MISS CONTRL CTR (MCC) UPGRADG LEV II.

ITEM: REPLACE SDPC COMPUTERS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	12000.0	12000.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: REPLACE TPC SYSTEMS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	0.0	0.0	5000.0	2000.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SMS, GNS CENT. MASS STORAGE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	1212.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SMS, RELIABILITY PERF. IMP.

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	1673.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: GNS, HIGH SPEED PRINTER

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	517.0	140.0	154.0	169.0	186.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SMS, IC REPLACEMENT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	0.0	2852.0	5897.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SMS, GNS HOST REPLACEMENT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	0.0	7000.0	17000.0	12000.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SPF CONFIGURATION 9 AUGMENTATION

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
6900.0	4960.0	7594.0	1683.0	177.0	188.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SPF CONTROL MODE AUGMENTATION

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
880.0	644.0	103.0	153.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OCD PAYLOAD SUPPORT.

ITEM: MASS DATA STORAGE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
564.0	1035.0	1174.0	1105.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OCD PAYLOAD SUPPORT, AND SPACE SHUTTLE OPERATIONS.

ITEM: DOD FEID'S DLPS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1990.0	2046.0	54.0	60.0	89.0	137.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OCD PAYLOAD SUPPORT.

ITEM: REPLACEMENT OF OBSOLETE SPF EQUIPMENT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	1790.0	1580.0	1580.0	1722.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: FLPS NSTS SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1495.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS, AND ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: RNET SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1279.0	1864.0	1544.0	1320.0	691.0	293.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: FDS AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1174.0	776.0	154.0	142.0	142.0	142.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: IFDS AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	319.0	182.0	207.0	224.0	252.0	275.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: FDS REPLACEMENT OF OBSOLETE EQUIPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	412.0	196.0	300.0	1240.0	1365.0	1502.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: FDS CONTROL MODE REPLACEMENT OF OBSOLETE EQUIPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	119.0	295.0	328.0	369.0	385.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: OCD PAYLOAD SUPPORT.

ITEM: CAPS AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	965.0	150.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: MISS CONTRL CTR (MCC) UPGRADG LEV II.

ITEM: CSC: NAS 9-15700 DATA SYS ENGR, PROGRAMMING & OPNS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	19604.0	20200.0	22110.0	22792.0	24180.0	24210.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, ADPE MAINTENANCE, CONTRACT FOR ADP OPERATIONS SERVICES, AND ADP STUDIES & OTHER, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: UNIVAC: NAS 9-16480: OPERATING SYSTEM SUPPORT

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	1249.0	1532.0	1686.0	1854.0	2038.0	2230.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: FORD: NAS 9-15014 MISSION PREP. & OPNS SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	16101.0	16466.0	14932.0	14921.0	15845.0	16522.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, ADPE MAINTENANCE, AND CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: FORD: NAS 9-16315 TELECOMMUNICATIONS/MICROFORMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1326.0	1666.0	1792.0	1902.0	2071.0	2257.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: SINGER: NAS 9-15023 MAINT. MOD. & OPERATIONAL

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	15345.0	15921.0	16758.0	18778.0	20434.0	22107.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, ADPE MAINTENANCE, CONTRACT FOR ADP OPERATIONS SERVICES, AND ADP STUDIES & OTHER, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: NAS 9-16920 SPACECRAFT SOFTWARE & MAINTENANCE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	4475.0	4813.0	5065.0	5295.0	5535.0	5782.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, AND ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: NAS 9-14350 MCC GROUND BASE SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	19776.0	19982.0	19342.0	16924.0	17372.0	18124.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: LEMSCO: NAS 9-15800 ENG'R DESIGN & DEV. SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	12410.0	11987.0	12085.0	11985.0	11906.0	11706.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, ADPE MAINTENANCE, CONTRACT FOR ANALYSIS/PROGRAMMING, ADP STUDIES & OTHER, AND OTHER IN-HOUSE OPERATING EXPENSES (SUPPLIES ,TRAINING ,ETC.), IN SUPPORT OF: RESEARCH & TEST OPERATIONS, ORBITER/HARDWARE PROD & CAPABILI DEV, AND SPACE SHUTTLE OPERATIONS.

ITEM: NSI: NAS 9-15425 OPNS & MAINT. OF LAB. FACILITIES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1105.0	1185.0	1110.0	1131.0	1088.0	1188.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, ADPE MAINTENANCE, CONTRACT FOR ANALYSIS/PROGRAMMING, ADP STUDIES & OTHER, AND OTHER IN-HOUSE OPERATING EXPENSES (SUPPLIES ,TRAINING ,ETC.), IN SUPPORT OF: RESEARCH & TEST OPERATIONS.

ITEM: MDTSCO: NAS 9-16715 SPACE SHUTTLE MISSION PLNG &

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3364.0	3136.0	1320.0	1386.0	1455.0	1527.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: MITRE: T-1612J COMPUTER SYS. ANALYSIS & PLANNING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2302.0	2517.0	2710.0	2801.0	2675.0	2835.0

DESCRIPTION: ADP STUDIES & OTHER, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: UNIVAC: NAS 9-1600 MAINT. OF SPERRY UNIVAC SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3007.0	3217.0	3443.0	3685.0	3942.0	1025.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: UNIVAC EQUIPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	460.0	460.0	460.0	460.0	560.0	560.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION, SPACE SHUTTLE OPERATIONS, AND RESOURCE AND PROGRAM MANAGEMENT.

ITEM: XEROX 9700'S

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	210.0	227.0	245.0	265.0	283.0	302.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS, DATA SYSTEM & FLIGHT OPERATION, AND RESOURCE AND PROGRAM MANAGEMENT.

ITEM: INTERSCIENCE TAPE SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	151.0	161.0	174.0	188.0	204.0	221.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS, DATA SYSTEM & FLIGHT OPERATION, AND RESOURCE AND PROGRAM MANAGEMENT.

ITEM: DISK LEASE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	791.0	791.0	791.0	791.0	820.0	848.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: EXISTING UNIVAC LTO (NET OF REPLACEMENTS)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1219.0	357.0	111.0	111.0	111.0	111.0

DESCRIPTION: LEASE TO OWNERSHIP OF ALREADY INSTALLED EQUIPMENT, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: EXISTING 1181 SECURE PROCESSOR

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	390.0	390.0	390.0	390.0	390.0	0.0

DESCRIPTION: LEASE TO OWNERSHIP OF ALREADY INSTALLED EQUIPMENT, IN SUPPORT OF: DOD PAYLOAD SUPPORT.

ITEM: UNIVAC MEMORY EXPANSION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	364.0	364.0	364.0	364.0	364.0	364.0

DESCRIPTION: LEASE TO OWNERSHIP OF ALREADY INSTALLED EQUIPMENT, IN SUPPORT OF: DATA SYSTEM & FLIGHT OPERATION.

ITEM: REPLACE SDPC COMPUTERS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	12000.0	12000.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

National Aeronautics and Space Administration

ITEM: SUPPORT SERVICES CONTRACT: FACC - NAS 9-15014

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2455.0	2164.0	1331.0	1425.0	1525.0	1632.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM: SUPPORT SERVICES CONTRACT: UNIVAC - NAS 9-16673

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	755.0	755.0	808.0	864.0	925.0	990.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: VAX AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	350.0	400.0	300.0	300.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: RESEARCH & TEST OPERATIONS.

ITEM: AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	75.0	90.0	400.0	500.0	300.0	400.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: RESEARCH & TEST OPERATIONS.

ITEM: AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	78.0	255.0	267.0	265.0	253.0	252.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE R&T BASE, SPACE SHUTTLE OPERATIONS, AND RESEARCH & TEST OPERATIONS.

National Space Tech Labs

ITEM: SUP. SERV. NAS13-185 CSC, OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1451.0	1548.0	1618.0	1691.0	1767.0	1847.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: ADPE MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	435.0	513.0	536.0	560.0	585.0	611.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: SUP. SERV. NAS13-185 CSC, PROGRAMMING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2511.0	2762.0	2886.0	3016.0	3152.0	3294.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: SUP. SERV. NAS13-185 CSC, STUDIES & OTHER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	279.0	307.0	321.0	335.0	350.0	366.0

DESCRIPTION: ADP STUDIES & OTHER, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: DEC VAX 11/780 AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	587.0	320.0	280.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: SUP. SERV. NAS9-15350 LEMSCO ANALYSIS/PROGRAMMING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	173.0	267.0	190.0	506.0	541.0	579.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: DIRECT PROGRAM SUPPORT CARRIER ACCT , AND RESOUR OBSERVTN APPL RES & DATA ANAL.

ITEM: SUP. SERV. NAS9-15350 LEMSCO MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	170.2	169.4	260.0	303.0	324.0	347.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: RESOUR OBSERVTN APPL RES & DATA ANAL, AND DIRECT PROGRAM SUPPORT CARRIER ACCT

ITEM: AUGMENTATION OF COMPUTER SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	350.0	350.0	400.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: DIRECT PROGRAM SUPPORT CARRIER ACCT

Marshall Space Flight Center

ITEM COMPUTER SERVICES CONTRACT (OPERATIONS)

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	2732.0	2590.0	2697.0	2904.0	3154.0	3375.0

DESCRIPTION CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF RESOURCE AND PROGRAM MANAGEMENT

ITEM COMPUTER SERVICES CONTRACT (PROGRAMMING)

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	5006.0	5808.0	6201.0	6498.0	6976.0	7481.0

DESCRIPTION CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF RESOURCE AND PROGRAM MANAGEMENT.

ITEM DATA REDUCTION MISSION CONTRACT

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	2253.0	2333.0	2456.0	2683.0	2915.0	3142.0

DESCRIPTION ADP STUDIES & OTHER. IN SUPPORT OF ORBITER/HARDWARE PROD & CAPABILI DEV.

ITEM EADS (LEASE)

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	100.0	5000.0	9000.0	12000.0	13000.0	13702.0

DESCRIPTION LEASE OF NEW HARDWARE. IN SUPPORT OF RESEARCH & TEST OPERATIONS.

ITEM IBM 4341 LEASE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	163.0	131.0	95.0	782.0	1016.0	698.0

DESCRIPTION LEASE TO OWNERSHIP OF ALREADY INSTALLED EQUIPMENT. IN SUPPORT OF OPERATIONS SUPPORT.

ITEM ADM. SYSTEMS NETWORKS ADP COMPONENTS (PURCHASE)

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	848.0	764.0	1158.0	1099.0	0.0	0.0

DESCRIPTION PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF RESOURCE AND PROGRAM MANAGEMENT.

ITEM NTI THIRD-PARTY MAINTENANCE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	582.0	649.0	588.0	844.0	905.0	968.0

DESCRIPTION ADPE MAINTENANCE. IN SUPPORT OF OPERATIONS SUPPORT.

ITEM: DATA SYSTEMS TECHNOLOGY PROGRAMMING HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	150.0	200.0	200.0	200.0	200.0	200.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE R&T BASE.

ITEM: SIGMA V REPLACEMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	350.0	350.0	350.0	1250.0	1000.0	175.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: SIGMA V REPLACEMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	350.0	350.0	1250.0	1000.0	175.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: IGDS SYSTEM UPDATES (BUILDING 4610)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	622.0	437.0	350.0	435.0	820.0	850.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: IGDS MODIFICATIONS (BUILDING 4487)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	543.0	179.0	405.0	300.0	320.0	320.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: IGDS ECHANCEMENTS (BUILDING 4610-EP)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	488.0	581.0	200.0	225.0	285.0	350.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: TEST DATA ACQUISITION & ANALYSIS SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	250.0	1430.0	1320.0	1540.0	1320.0	900.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: DIGITAL DATA ACQUISITION SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	50.0	1200.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: FLOATING POINT HARDWARE FOR AD 10'S

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
242.0	242.0	350.0	0.0	0.0	625.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: MAINTENANCE OF SIGMA SYSTEMS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
300.0	327.0	345.0	362.0	374.0	388.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: MAINTENANCE OF DIGITAL DATA ACQ. & CONTROL SYSTEM

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
676.0	730.0	767.0	805.0	844.0	888.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: IGDS MAINTENANCE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
533.0	592.0	627.0	646.0	671.0	694.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: MAINTENANCE OF SIMULATION EQUIPMENT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
474.0	432.0	447.0	470.0	493.0	517.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: MAIN ENGINE/HARDW PROD & CAPABIL DEV.

ITEM: HOSC MAINTENANCE & OPERATIONS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
684.0	760.0	534.7	269.4	296.4	326.1

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: ORBITER/HARDWARE PROD & CAPABILI DEV. AND SPACELAB DEVELOPMENT.

ITEM: MAINTENANCE OF VAX COMPUTERS, HOSC

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
245.0	308.0	339.0	374.0	411.0	452.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: SPACE TELESCOPE OPERATIONS, AND SPACE PAYLOADS 1&2.

ITEM: PAYLOAD CREW TRAINING COMPLEX MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	220.0	242.0	266.0	293.0	322.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACELAB MISSION MGT--APPROVED MISSN.

ITEM: THIRD-PARTY MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	235.0	246.0	258.0	271.0	285.0	299.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: OPERATIONS SUPPORT.

ITEM: MISSION SERVICES CONTRACT NAS8-33998

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	8674.0	7969.0	6546.0	5842.0	6229.0	6384.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CONTRACT FOR ANALYSIS/PROGRAMMING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	643.0	679.0	713.0	745.0	779.0	814.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: ADPE MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	4.0	94.0	549.0	639.0	786.0	1042.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: CONTINGENCY SPERRY 1100 SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1461.0	2697.0	2407.0	2013.0	744.0	796.0

DESCRIPTION: LEASE OF NEW HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: SPERRY 1100/83 BACKING STORE AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	138.0	279.0	281.0	283.0	286.0	160.0

DESCRIPTION: LEASE OF AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

National Aeronautics and Space Administration

ITEM: SPERRY 1100/83 AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	231.0	511.0	515.0	520.0	525.0

DESCRIPTION: LEASE OF AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: UNISERVO SUBSYSTEM REPLACEMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	219.0	892.0	684.0	0.0

DESCRIPTION: LEASE OF REPLACEMENT HARDWARE, IN SUPPORT OF: SPACE SHUTTLE OPERATIONS.

ITEM: SPERRY 1100/60 PROCESSOR PURCHASE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	1112.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: EXTERNAL TANK (ET) CAPABILITY DEVEL

Jet Propulsion Laboratory

ITEM: OPERATIONS & MAINTENANCE OF THE IPC (954900-ITT)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1682.0	1766.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS, AND GALILEO.

ITEM: OPERATION & MAINTENANCE OF THE MCCF (954900-ITT)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	800.0	1016.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: OPS/MAINTENANCE OF NDPA (954900-ITT)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1258.0	1326.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: OPS/MAINT. OF MCCF/SFOC MARK III SYS. (954900-ITT)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1732.0	1821.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: ADMINISTRATIVE COMPUTING OPS (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	325.0	350.0	375.0	400.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: GALILEO.

ITEM: OPERATION AND MAINTENANCE OF IPC (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	1945.0	2135.0	2350.0	2585.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS, AND GALILEO.

ITEM: OPS/MAINTENANCE NDPA (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	1460.0	1600.0	1765.0	1940.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: OPS/MAINT. OF MCCF/SFOC MARK III SYS. (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	475.0	520.0	575.0	630.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: GALILEO.

ITEM: MAINTENANCE OF THE SFOC MARK III SYSTEM (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	1890.0	2075.0	2285.0	2510.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: IPC SOFTWARE PROGRAMMING/APPLICATIONS (955903)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	280.0	300.0	325.0	350.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: GALILEO.

ITEM: IPL MAINTENANCE AND OPERATIONS (954900-INFO.)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	575.0	525.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: GALILEO, AND RESOUR OBSERVTN APPL RES & DATA ANAL.

ITEM: IPL MAINTENANCE AND OPERATIONS (954900)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	575.0	630.0	700.0	765.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: RESOUR OBSERVTN APPL RES & DATA ANAL, AND GALILEO.

ITEM: DSN OPERATIONS ANALYSIS (955000-BENDIX)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	892.0	957.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND CONTRACT FOR ANALYSIS PROGRAMMING, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: DSN ANALYSIS & JPL/GOLDSTONE OPERATIONS & MAINT.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	645.0	694.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: DSN/MCC MGMT/OPERATIONS/MAINTENANCE/GOLDSTONE OPS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	4401.0	4668.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND ADPE MAINTENANCE, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: DSN OPERATIONS ANALYSIS SOFTWARE (955000)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	1050.0	1160.0	1275.0	1400.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND CONTRACT FOR ANALYSIS PROGRAMMING, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: DSN ANALYSIS & JPL/GOLDSTONE OPERATIONS & MAINT.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	790.0	870.0	955.0	1050.0

DESCRIPTION: ADPE MAINTENANCE, AND CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: DSN/MCC MGMT/OPERATIONS/MAINTENANCE/GOLDSTONE OPS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	5130.0	5645.0	6215.0	6835.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND ADPE MAINTENANCE, IN SUPPORT OF: NETWORK OPERATIONS-T&D ACQUISITION.

ITEM: MASSTOR EXPANSION TO 2 X 1012 BYTES CAPACITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1010.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: GALILEO.

ITEM: INTERIM DATA RECORDS COMPUTING SYSTEM (AP-464)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	345.0	345.0	345.0	0.0	0.0	0.0

DESCRIPTION: LEASE OF REPLACEMENT HARDWARE. IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: MULTI-MISSION IMAGE PROCESSING LAB (MIPL) (AP-451)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	935.0	1159.0	1047.0	1343.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE. IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: COMPUTER PROCESSORS FOR MARK IV-A IMPLEMENATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1203.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: SYSTEMS IMPLEMENTATION.

ITEM: PLANETARY RANGING REPLACEMENT ADPE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	483.0	1011.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE. IN SUPPORT OF: SYSTEMS IMPLEMENTATION.

ITEM: MARS GEOSCIENCE CLIMATOLOGY ORBITOR (MGCO)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	208.0	1086.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: DSN PROGRAMMING SUPPORT (955691-TELOS)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1231.0	836.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: NETWORK OPERATIONS T&D ACQUISITION.

ITEM: DSN SOFTWARE PRODUCTION (955619-CSC)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	640.0	704.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: NETWORK OPERATIONS T&D ACQUISITION.

ITEM: DSN SOFTWARE PRODUCTION (955619)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	500.0	500.0	400.0	300.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: NETWORK OPERATIONS T&D ACQUISITION.

ITEM: SOFTWARE IDENTIFICATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1200.0	2500.0	2400.0	1500.0	500.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: GALILEO.

ITEM: CISS INSTITUTIONAL ADMINISTRATIVE COMPUTER SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	480.0	720.0	720.0	580.0	0.0	0.0

DESCRIPTION: LEASE OF AUGMENTATION HARDWARE, IN SUPPORT OF: SYSTEMS IMPLEMENTATION.

ITEM: INSTITUTIONAL LOCAL AREA NETWORK IMPLEMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	178.0	680.0	681.0	550.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: GALILEO.

ITEM: COMPUTER REPLACEMENT PROJECT (AP-317) (MASSTOR

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	516.0	516.0	516.0	86.0	0.0	0.0

DESCRIPTION: LEASE OF REPLACEMENT HARDWARE, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

Goddard Space Flight Center

ITEM: SCIENCE & APPLICATIONS COMPUTING CENTER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1092.0	655.0	290.0	520.0	600.0	600.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: DATA SYSTEMS.

ITEM: SCIENCE & APPLICATIONS COMPUTING CENTER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2010.0	2075.0	1990.0	2000.0	2150.0	2150.0

DESCRIPTION: LEASE OF AUGMENTATION HARDWARE, IN SUPPORT OF: DATA SYSTEMS.

ITEM: SCIENCE & APPLICATIONS COMPUTING CENTER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	685.0	586.0	273.0	0.0	244.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: ASTROPHYSICS MISS OPER & DATA ANAL, AND CRUSTAL DYNAMICS.

ITEM: SCIENCE & APPLICATIONS COMPUTING CENTER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1340.0	1480.0	840.0	910.0	1010.0	1100.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: DATA SYSTEMS, AND MISSION OPERATIONS AND DATA ANALYSIS.

ITEM: SCIENCE & APPLICATIONS COMPUTING CENTER

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	110.0	385.0	395.0	290.0	300.0	0.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: DATA SYSTEMS.

ITEM: UNIVAC 1100/82 UPGRADING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	550.0	2945.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: UNIVAC 1100/82 RENTALS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	205.0	177.0	192.0	208.0	236.0	250.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: UNIVAC 1100/82 HARDWARE MAINTENANCE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	625.0	688.0	754.0	829.0	900.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: MISSION OPERATIONS COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1807.0	1937.0	712.0	634.0	0.0	0.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: NASA HIGH SPEED COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
3930.0	3570.0	4977.0	1532.0	705.0	705.0

DESCRIPTION: LEASE OF NEW HARDWARE, IN SUPPORT OF: GLOBAL WEATHER RESEARCH PROGR.

ITEM: NASA HIGH SPEED COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1466.0	1190.0	0.0	0.0	0.0	0.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE, IN SUPPORT OF: CLIMATE RESEARCH.

ITEM: NASA HIGH SPEED COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	917.0	1239.0	1324.0	1446.0	1550.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: CRUSTAL DYNAMICS.

ITEM: NASA HIGH SPEED COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	320.0	396.0	424.0	463.0	500.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: CRUSTAL DYNAMICS.

ITEM: NASA HIGH SPEED COMPUTING FACILITY

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
995.0	892.0	0.0	0.0	0.0	0.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SEVERE STORMS & LO WEATHER RES. AND CLIMATE RESEARCH.

ITEM: PACKET PROCESSOR (PACOR) SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1600.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: (COBE) VAX 11/780 I&T/DATA PROCESSING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	606.0	562.0	448.0	436.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: COSMIC BACKGROUND EXPLORER (COBE).

ITEM: NCC AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3550.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: SPACE NETWORK.

ITEM: NCC AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	235.0	215.0	228.0	242.0	266.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE. IN SUPPORT OF: SPACE NETWORK.

ITEM: CONTINUING MSOCC UPGRADE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1694.0	3740.0	4900.0	1400.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: FLIGHT DYNAMICS SYSTEM AND SSP

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1520.0	2243.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: FLIGHT DYNAMICS SYSTEM AND SSP

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	166.0	388.0	284.0	288.0	0.0	0.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: FLIGHT DYNAMICS SYSTEM AND SSP

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	0.0	0.0	0.0	950.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: COMMAND MANAGEMENT SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	848.0	1106.0	1593.0	3100.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: ORBIT COMPUTATION SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	5200.0	5600.0	4400.0	2700.0	600.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: REPLACEMENT OF HON625 AND HON61/20

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	688.0	530.0	502.0	598.0	631.0	669.0

DESCRIPTION: LEASE OF REPLACEMENT HARDWARE, IN SUPPORT OF: GROUND NETWORK.

ITEM: MSO ADP SUPPORT (ART) 27622

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	655.0	723.0	740.0	751.0	763.0	760.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: MSO ADP SUPPORT (ART) 27622

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	536.0	592.0	603.0	617.0	624.0	650.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: OP. CONTROL CENTER SUPPORT (BENDIX) 27772

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3469.0	4416.0	6002.0	6333.0	4583.0	4180.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: OP. CONTROL CENTER SUPPORT (BENDIX) 27772

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	4293.0	4688.0	5206.0	5757.0	5342.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: OP. CONTROL CENTER SUPPORT (BENDIX) 27772

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	650.0	748.0	856.0	983.0	308.0	0.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: MOCD MAINT. & OPS. (RMS) 26805

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2133.0	2387.0	2074.0	2266.0	2266.0	2200.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: DATAPROCESSING OP. & SYS. SUPPORT (LOCKHEED) 27777

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2390.0	2379.0	2504.0	2510.0	1961.0	2000.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: DATAPROCESSING OP. & SYS. SUPPORT (LOCKHEED) 27777

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	10333.0	10166.0	10553.0	15328.0	4782.0	5000.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: DATAPROCESSING OP. & SYS. SUPPORT (LOCKHEED) 27777

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1351.0	2048.0	1574.0	1689.0	1447.0	1500.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: ON/OFFSIDE PROGRAMMING & ANALYSIS (CSC) 27555

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	5223.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: PROGRAMMING, COMPUTATION & ANALYSIS SUPPORT (CSC)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
7703.0	8863.0	9484.0	8005.0	7018.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: SCIENCE & APPLICATIONS ON/OFFSITE PROGRAMMING & AN

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
4125.0	2332.0	1645.0	763.0	600.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: DATA SYSTEMS, AND SOLAR TERRES MISS OPER & DATA ANAL.

ITEM: NCC, TDRSS, NET. SEC. & ORBIT COMP SYS. (S04031)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1262.0	804.0	410.0	450.0	500.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: STRATOSPHERIC AIR QUALITY, AND DATA SYSTEMS.

ITEM: TDRSS OPERATIONS SUPPORT (BENDIX) 27600

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
9042.0	9567.0	9459.0	9645.0	9670.0	9800.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE NETWORK.

ITEM: TDRSS OPERATIONS SUPPORT (BENDIX) 27600

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
2659.0	2817.0	2010.0	1612.0	1500.0	1400.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE NETWORK.

ITEM: TDRSS OPERATIONS SUPPORT (BENDIX) 27600

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1096.0	1233.0	1404.0	1609.0	1627.0	1675.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE NETWORK.

ITEM: TDRSS OPERATIONS SUPPORT (BENDIX) 27600

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
698.0	798.0	789.0	836.0	800.0	800.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: SPACE NETWORK.

ITEM: TDRSS OPERATIONS SUPPORT (BENDIX) 27600

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	648.0	866.0	850.0	850.0	901.0	930.0

DESCRIPTION: ADP STUDIES & OTHER. IN SUPPORT OF: SPACE NETWORK.

ITEM: NETWORK PROGRAMMING SUPPORT (CSC) 22900

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3405.0	16268.0	17236.0	15625.0	15000.0	15000.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: SPACE NETWORK.

ITEM: NETWORK PROGRAMMING SUPPORT (CSC) 22900

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	95.0	485.0	477.0	506.0	525.0	550.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: SPACE NETWORK.

ITEM: GSTDN SUPPORT (CSC) 27747

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1549.0	1200.0	1277.0	0.4	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: GROUND NETWORK.

ITEM: WALLOPS ENGINEERING SUPPORT SVCS. (CSC) NAS 6-2947

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	284.0	328.0	354.0	385.0	412.0	442.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: GROUND NETWORK.

ITEM: NCC, TDRSS, NET. SEC. & ORBIT COMP SYS. (S04031)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	792.0	494.0	498.0	694.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: SPACE NETWORK.

Langley Research Center

ITEM: MASS STORAGE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	400.0	0.0	500.0	200.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: NETWORKS SIMULATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	500.0	700.0	600.0	500.0	400.0	600.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: NETWORKS DISTRIBUTED (MED. BANDWIDTH)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	300.0	500.0	300.0	400.0	600.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: MAINFRAMES VECTOR PROCESSING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2980.0	2979.0	3000.0	3000.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: MAINFRAMES CYBER 170 REPLACEMENTS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	0.0	3000.0	3000.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: PERIPHERALS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	112.0	150.0	200.0	58.0	416.0	699.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: RES. DATA PROCESS. SUPP (NAS1-17299)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	4376.2	4828.2	5212.0	5733.0	6307.0	6938.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND CONTRACT FOR ANALYSIS PROGRAMMING, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: SIM. DATA SYS. SUPP. (NAS1-16072)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2009.0	2209.0	2430.0	2673.0	2940.0	3235.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND CONTRACT FOR ANALYSIS PROGRAMMING, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: ANALY. AND PROGRAM. SUPP. (NAS1-16078)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1375.0	1513.0	1663.0	1830.0	2013.0	2214.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: CENTRAL COMPUTER COMPLEX (NAS1-15430)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3008.0	3250.0	3510.0	3790.0	4094.0	4422.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: TERMINALS & ANCILLARY EQUIPMENT MAINT.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	708.0	787.0	886.0	994.0	1105.0	1221.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: DISTRIBUTED FACILITY SUPPORT COLOR GRAPHICS SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	600.0	500.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: DISTRIBUTED SCIENCE & ENGINEERING MINIS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	500.0	600.0	800.0	800.0	700.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: DISTRIBUTED R&D TERMINALS & ANCILLARY DEVICES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	750.0	850.0	850.0	850.0	850.0	850.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: 4341 CPU REPLACEMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	0.0	600.0	600.0

DESCRIPTION: LEASE TO OWNERSHIP OF AUGMENTATION HARDWARE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: PROPRIETARY SOFTWARE LEASE/MAINT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
145.0	205.0	215.0	270.0	275.0	280.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: MAINTENANCE OF OWNED EQUIPMENT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
217.0	256.0	294.0	319.0	347.0	419.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: SUPPORT CONTRACTOR (OPERATIONS, 45%)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
908.0	968.0	1047.0	1130.0	1220.0	1318.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: SUPPORT CONTRACTOR (A&P, 55%)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1120.0	1182.0	1278.0	1380.0	1490.0	1612.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: ADPE MAINTENANCE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1630.1	1725.1	1892.0	2037.0	2193.0	2362.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: ANALYSIS AND PROGRAMMING

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1761.7	2058.4	2247.0	2206.0	2378.0	2564.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: CONTRACT SUPPORT (A & P)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
165.0	165.0	180.0	195.0	215.0	235.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: CPU AND PERIPHERALS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	94.0	262.0	292.0	300.0	200.0	400.0

DESCRIPTION: LEASE TO OWNERSHIP OF AUGMENTATION HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

Lewis Research Center

ITEM: IBM 3033 SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	220.0	230.0	240.0	250.0	260.0	0.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: IBM 3033 MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	545.0	600.0	660.0	740.0	800.0	0.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: IBM 3033 SYSTEMS SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	550.0	600.0	650.0	700.0	700.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: COMTEN FEP SYSTEMS SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	130.0	150.0	165.0	180.0	200.0	220.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ICARE HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	510.0	550.0	350.0	350.0	350.0	350.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ICARE SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	200.0	225.0	225.0	250.0	250.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ICARE SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	300.0	300.0	300.0	300.0	300.0	300.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ICARE MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	184.0	240.0	320.0	360.0	400.0	440.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CRAY IS HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	3054.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: LEASE OF ALREADY INSTALLED HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CRAY IS HARDWARE .

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	159.0	4585.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE PREVIOUSLY LEASED HARDWARE (CONVERSION FROM LEASE TO PURCHASE). IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CRAY IS AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	2725.0	700.0	700.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CRAY IS MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	515.0	550.0	715.0	800.0	880.0	970.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CRAY IS SYSTEMS SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	220.0	250.0	275.0	305.0	335.0	370.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: SCIENTIFIC/ENG. HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1727.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: SCIENTIFIC/ENG. AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	390.0	1663.0	1149.0	4897.0	450.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: SCIENTIFIC/ENG. SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	160.0	212.0	250.0	275.0	300.0	330.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: SCIENTIFIC/ENG. MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	80.0	100.0	125.0	155.0	300.0	375.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: SCIENTIFIC/ENG. SYS. SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	100.0	150.0	165.0	182.0	200.0	220.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: GRAPHICS/DEV'T HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1755.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: GRAPHICS/DEV'T AUGMENTATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	800.0	1297.0	1400.0	325.0	325.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: GRAPHICS/DEV'T SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	154.0	206.0	226.0	246.0	270.0	300.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: GRAPHICS/DEV'T SYS. SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	150.0	150.0	165.0	182.0	200.0	220.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: MGT/ADMINISTRATIVE HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1835.0	0.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: MGT/ADMINISTRATIVE AUGMENT.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	590.0	1120.0	874.0	400.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: MGT/ADMINISTRATIVE SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	260.0	275.0	250.0	275.0	300.0	300.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: CLASS VII COMPUTER HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	2000.0	2000.0	5000.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CLASS VII COMPUTER HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	3000.0	3000.0	0.0

DESCRIPTION: LEASE OF NEW HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CLASS VII COMPUTER MAINT.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	500.0	750.0	900.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CLASS VII COMPUTER SYS. SUP.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	305.0	335.0	370.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: IBM 3033 REPLACE. HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	0.0	0.0	2000.0

DESCRIPTION: LEASE OF NEW HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: OFFICE AUTO. MINICOMPUTERS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	500.0	250.0	250.0	250.0	200.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: OFFICE AUTO. MINI. SOFTWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	300.0	300.0	300.0	300.0	300.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: SHARED MASS STORAGE HDW.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1000.0	500.0	0.0	500.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ARCHIVAL MASS STORAGE SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	400.0	400.0	300.0	300.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: LINK COMPONENTS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
640.0	811.0	500.0	300.0	300.0	200.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: INTERACTIVE SCIEN. TERMINALS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
774.0	645.0	550.0	550.0	550.0	550.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: INTERACTIVE BUSIN. TERMINALS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
160.0	180.0	300.0	200.0	200.0	200.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: INTELL. SCIEN. WORKSTATIONS

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
180.0	360.0	420.0	420.0	480.0	540.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: OA WORKSTATION HARDWARE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
25.0	30.0	430.0	370.0	330.0	290.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: OA WORKSTATION HARDWARE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
494.0	391.0	200.0	200.0	200.0	200.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: OA WORKSTATION SOFTWARE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
190.0	180.0	210.0	210.0	210.0	210.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: LARGE SYSTEM COMP. OPERNS.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	106.0	275.0	350.0	360.0	390.0	400.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: DATA SYSTEMS MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	418.0	450.0	500.0	520.0	540.0	550.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: DATA SYSTEMS OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	220.0	240.0	250.0	255.0	260.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: GENERAL SSC PERSONNEL

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1860.0	2670.0	3500.0	4650.0	5400.0	6000.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: BUSINESS CODE REDEVELOPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	640.0	680.0	900.0	600.0	500.0	250.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: ESCORT II HARDWARE UPGRADE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	190.0	270.0	295.0	315.0	350.0	350.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: TRADAR III HARDWARE SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	100.0	1035.0	1035.0	50.0	50.0	50.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: FATIGUE TEST LAB HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1100.0	400.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: HIGH-SPEED AIRCRAFT SYSTEMS TECHNOLO.

ITEM: MSTR. CON. SYS. FOR ACTS HDW.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1500.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: ADV COMMUNICATIONS TECH SATELLI-ACTS.

ITEM: MSTR. CON. SYS. FOR ACTS SFW.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1500.0	1500.0	1500.0	1500.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: ADV COMMUNICATIONS TECH SATELLI-ACTS.

ITEM: ALT. WIND TUN. CONT. SYS HDW.

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	0.0	1500.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: CONSTRUCTION OF FACILITIES.

Ames Research Center

ITEM: CLASS 6 COMPUTER FACILITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	7030.0	7750.0	8138.0	8544.0	8972.0	9420.0

DESCRIPTION: LEASE OF ADPE TIME. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: CLASS 6 COMPUTER FACILITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	400.0	400.0	400.0	400.0	400.0	400.0

DESCRIPTION: LEASE OF ADPE TIME. IN SUPPORT OF: UPPER ATMOSPHERIC RESEARCH PROG.

ITEM: GRAPHICS PROGRAMMING SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	390.0	425.0	455.0	478.0	502.0	527.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY, AND AERONAUTICS R&T BASE.

ITEM: VAX FACILITY UPGRADES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	370.0	370.0	389.0	408.0	428.0	445.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE, AND ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: PDP AND VAX SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	510.0	563.0	591.0	620.0	650.0	683.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE, AND ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	724.0	766.0	806.0	847.0	890.0	935.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY, AND AERONAUTICS R&T BASE.

ITEM: SOFTWARE SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	225.0	238.0	250.0	263.0	276.0	290.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: MASTER PROGRAMMING CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	7437.5	7808.1	8519.5	8945.3	9392.5	9862.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: 4341 PERFORMANCE IMPROVEMENTS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	300.0	315.0	331.0	347.0	365.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: PROGRAM MAINTENANCE AND DEVELOPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1169.0	1227.0	1290.0	1350.0	1420.0	1491.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: MAINTENANCE OF IBM 4341

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	182.0	201.0	211.0	222.0	233.0	244.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: COMPUTER OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	270.0	280.0	300.0	315.0	335.0	347.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: H/W LEASE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2392.0	3317.0	3416.0	570.0	0.0	0.0

DESCRIPTION: LEASE OF NEW HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: HARDWARE MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	505.0	638.0	638.0	104.0	0.0	0.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: OPERATION

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	590.0	648.0	649.0	108.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: BENDIX DATA COMMUNICATION SERVICES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1032.9	1240.4	1340.0	1407.0	1477.0	1551.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY, AND AERONAUTICS R&T BASE.

ITEM: GENERAL-PURPOSE MASS STORAGE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1500.0	1500.0	500.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE

ITEM: MAINTENANCE OF IBM 4341

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	167.0	184.0	193.0	203.0	213.0	224.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: MAINTENANCE OF CENTRAL COMP FACILITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	718.0	809.0	849.0	892.0	937.0	983.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: OPERATIONS OF TSS SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	190.0	211.0	221.0	232.0	244.0	256.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: SPACE R&T BASE, AND AERONAUTICS R&T BASE.

ITEM: OPERATIONS CENTRAL COMPUTER FACILITY

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	203.0	224.0	235.0	247.0	259.0	272.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: TSS SOFTWARE LEASE TIME SHARING SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	222.0	218.0	229.0	240.0	252.0	265.0

DESCRIPTION: PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, IN SUPPORT OF: AERONAUTICS R&T BASE, AND SPACE R&T BASE.

ITEM: DEC MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1641.0	2153.0	2826.0	3709.0	3894.0	4089.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE

ITEM: OTHER MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	272.0	286.0	300.0	315.0	331.0	347.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: AIRCRAFT LOADS PROGRAM (PANAIR)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
300.0	300.0	300.0	300.0	300.0	300.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: PROGRAMMING

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1444.0	1560.0	1684.0	1819.0	1965.0	2122.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: MAINTENANCE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1449.0	1613.0	1798.0	2008.0	2246.0	2517.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: SIM SCIENCE FAC. OPNS.

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
168.0	181.0	196.0	212.0	229.0	247.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM: ADP ANALYSIS AND PROGRAMMING

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
351.0	327.0	402.0	437.0	477.0	520.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: LIFE SCI FLIGHT EXPERIMENTS

ITEM: MAINTENANCE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
143.0	150.0	162.0	175.0	189.0	204.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: VISUAL UPGRADE TO DAYLIGHT PHASE III

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	1100.0	700.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: AERONAUTICS R&T BASE

ITEM ANALYSIS/PROGRAM

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	504.0	635.0	667.0	700.0	735.0	772.0

DESCRIPTION CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM MAINTENANCE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	336.0	405.0	425.0	447.0	469.0	492.0

DESCRIPTION ADPE MAINTENANCE. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM PURCHASE NEW HARDWARE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	300.0	400.0	200.0	100.0	100.0	100.0

DESCRIPTION PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM CONTRACT FOR ADP OPERATIONS SERVICES

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	968.0	1065.0	1100.0	1150.0	1200.0	1250.0

DESCRIPTION CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: ROTORCRAFT SYSTEMS TECHNOLOGY.

ITEM DISK/TAPE DRIVES

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	340.0	357.0	375.0	394.0	413.0	434.0

DESCRIPTION CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: AIRBORN INSTRUMT RES PROG.

ITEM CV 990 AND C-130 AIRBORNE SCIENCE

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	210.0	215.0	220.0	231.0	243.0	255.0

DESCRIPTION CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: AIRBORN INSTRUMT RES PROG.

ITEM AIRBORNE ASTRONOMY

OBLIGATIONS	1984	1985	1986	1987	1988	1989
	210.0	215.0	220.0	231.0	243.0	255.0

DESCRIPTION CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: AIRBORNE RESEARCH.

ITEM: NPSN HIGH SPEED PROCESSOR ONE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2100.0	7000.0	7800.0	8500.0	0.0	0.0

DESCRIPTION: LEASE TO OWNERSHIP OF NEW HARDWARE. IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN HIGH SPEED PROCESSOR TWO

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	0.0	9400.0	9500.0	9500.0

DESCRIPTION: LEASE TO OWNERSHIP OF NEW HARDWARE. IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN SUPPORT PROCESSOR

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1600.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN MASS STORAGE SUBSYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	4800.0	0.0	6300.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN LONG HAUL COMMUNICATIONS SYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1400.0	0.0	0.0	2400.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN GRAPHICS SUBSYSTEM

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	2900.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN WORKSTATIONS AND LOCAL SUBSYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1300.0	1500.0	1000.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: TERMINALS AND PROJECT SUPPORT EQUIPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	200.0	210.0	221.0	232.0	243.0	255.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN INTEGRATION SUPPORT CONTRACTOR

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2800.0	3500.0	2900.0	1200.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: NPSN SYSTEM SOFTWARE CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	2000.0	4500.0	3700.0	5500.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: NUMERICAL AERODYNAMIC SIMULATOR.

ITEM: FACILITY MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	894.0	2478.0	3157.0	3315.0	3481.0	3655.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: OPERATIONS SUPPORT CONTRACT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	0.0	4800.0	6400.0	6400.0	6400.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: PIONEER MISSION OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	231.0	243.0	255.0	267.0	281.0	295.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: PIONEER MISSION OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	158.0	166.0	174.0	183.0	192.0	202.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: PIONEER MISSION OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	210.0	220.0	232.0	243.0	255.0	268.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: MISSION OPERATIONS & DATA ANALYSIS.

ITEM: COMPUTER SYSTEMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1209.0	1269.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: PROGRAM SOFTWARE SERVICES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	793.0	832.0	0.0	0.0	0.0	0.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: HARDWARE (ADD)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	650.0	70.0	60.0	40.0	350.0	90.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: GROUND NETWORK.

ITEM: HARDWARE (REPLACE)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	190.0	715.0	555.0	375.0	160.0	825.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE. IN SUPPORT OF: GROUND NETWORK.

ITEM: PROGRAMMING

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	680.0	795.0	865.0	940.0	1070.0	1140.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: GROUND NETWORK.

ITEM: MAINTENANCE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	160.0	280.0	315.0	335.0	335.0	400.0

DESCRIPTION: ADPE MAINTENANCE. IN SUPPORT OF: GROUND NETWORK.

ITEM: HARDWARE DEVELOPMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	310.0	330.0	350.0	370.0	395.0	415.0

DESCRIPTION: ADP STUDIES & OTHER, IN SUPPORT OF: GROUND NETWORK.

ITEM: HARDWARE REPLACEMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	120.0	125.0	231.0	238.0	245.0	253.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: HIGH-SPEED AIRCRAFT SYSTEMS TECHNOLO. AND AERONAUTICS R&T BASE.

ITEM: CYBER REPLACEMENT

OBLIGATIONS:	1984	1985	[illegible]	1987	1988	1989
	2500.0	490.0	240.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE, IN SUPPORT OF: AERONAUTICS R&T BASE.

ITEM: ENGINEERING SERVICES

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	375.0	395.0	515.0	544.0	572.0	600.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: HIGH-SPEED AIRCRAFT SYSTEMS TECHNOLO. AND AERONAUTICS R&T BASE.

ITEM: MAINTENANCE CONTRACTS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	261.0	286.0	400.0	415.0	431.0	458.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: HIGH-SPEED AIRCRAFT SYSTEMS TECHNOLO. AND AERONAUTICS R&T BASE.

ITEM: CYBER OPERATIONS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	475.0	500.0	614.0	651.0	693.0	728.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, IN SUPPORT OF: HIGH-SPEED AIRCRAFT SYSTEMS TECHNOLO. AND AERONAUTICS R&T BASE.

ITEM: ADPE MAINTENANCE FOE SIM/RCVD

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	454.0	477.0	500.0	525.0	552.0	579.0

DESCRIPTION: ADPE MAINTENANCE, IN SUPPORT OF: AERONAUTICS R&T BASE.

NASA Headquarters

ITEM: IBM 4341 UPGRADE

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
960.0	150.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE REPLACEMENT HARDWARE. IN SUPPORT OF: DIRECT PROGRAM SUPPORT CARRIER ACCT

ITEM: PRC SUPPORT CONTRACT (OPERATIONS AND MAINTENANCE)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
1743.0	2255.0	2243.0	2377.0	2520.0	2671.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: PRC SUPPORT CONTRACT (ANALYSIS AND PROGRAMMING)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
2812.0	2530.0	5232.0	5547.0	5879.0	6232.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: SUPPORT CONTRACT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
3615.0	3930.0	4735.0	5188.0	5902.0	6378.0

DESCRIPTION: CONTRACT FOR ADP OPERATIONS SERVICES, AND CONTRACT FOR ANALYSIS PROGRAMMING. IN SUPPORT OF: SCIENTIFIC & TECH INFO-HQ USE ONLY.

ITEM: OMNIBUS IS/OA SUPPORT CONTRACT

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
500.0	1000.0	1000.0	1000.0	1000.0	500.0

DESCRIPTION: ADP STUDIES & OTHER. IN SUPPORT OF: DIRECT PROGRAM SUPPORT CARRIER ACCT.

ITEM: MANAGEMENT INFORMATION SYSTEM

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
300.0	300.0	300.0	300.0	300.0	300.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, AND CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: MAJ SY & SUBSY STUDIES & SUPPORT.

ITEM: LAN INTERFACE UNITS (BIU) (AIMS)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
800.0	200.0	100.0	100.0	100.0	100.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY). IN SUPPORT OF: PLANETARY EXPLORAT INSTITUTNL SUPPRT, ORBITER/HARDWARE PROD & CAPABILI DEV, AERONAUTICS R&T BASE, AND COMMUNICATIONS AND DATA SYSTEMS.

ITEM: LAN CONTROL HARDWARE

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	0.0	1200.0	300.0	100.0	100.0	100.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), IN SUPPORT OF: COMMUNICATIONS AND DATA SYSTEMS.

ITEM: PLANNING & IMPLEMENTATION: ADMIN COMPUTING (PITAC)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	500.0	500.0	1100.0	1100.0	1100.0	1100.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ, AND OTHER EQUIPMENT, AND CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: BIG EIGHT SUPPORT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	500.0	1396.0	1000.0	1000.0	1000.0	1000.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: AUTOMTED BUDGET ANALYSIS SYSTEM(ABAS)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	900.0	600.0	900.0	900.0	900.0	900.0

DESCRIPTION: CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: PROCUREMENT MANAGEMENT TECHNOLOGY PROGRAM (PMTP)

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1500.0	1500.0	2200.0	362.0	362.0	362.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE, AND CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: AIMS VAX PROCUREMENT

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	1550.0	550.0	550.0	550.0	550.0	550.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), PROPRIETARY SOFTWARE ANNUAL LICENSE FEE, ADPE MAINTENANCE, AND CONTRACT FOR ANALYSIS/PROGRAMMING, IN SUPPORT OF: PLANETARY EXPLORAT INSTITUTNL SUPPRT, AND AERONAUTICS R&T BASE.

ITEM: AIMS

OBLIGATIONS:	1984	1985	1986	1987	1988	1989
	500.0	1250.0	200.0	200.0	200.0	200.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), CONTRACT FOR ANALYSIS/PROGRAMMING, AND ADP STUDIES & OTHER, IN SUPPORT OF: PLANETARY EXPLORAT INSTITUTNL SUPPRT.

ITEM: REFORM UNIFORM PAYROLL PERSONNEL STUDY (SNPP)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
250.0	0.0	300.0	1500.0	1500.0	1500.0

DESCRIPTION: ADP STUDIES & OTHER. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: NASA EQUIPMENT MANAGEMENT SYSTEM (NEMS)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
560.0	260.0	80.0	80.0	80.0	80.0

DESCRIPTION: PURCHASE NEW HARDWARE (NEW CAPACITY), AND CONTRACT FOR ANALYSIS PROGRAMMING. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: UTILITY CONTROL SYSTEM (UCS)

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	0.0	1500.0	1500.0	1500.0	1500.0

DESCRIPTION: PURCHASE OF PROPRIETARY SOFTWARE, DATA ENTRY OR KEYPUNCH EQ. AND OTHER EQUIPMENT, AND CONTRACT FOR ANALYSIS/PROGRAMMING. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

ITEM: STORAGE DEVICES

OBLIGATIONS:

1984	1985	1986	1987	1988	1989
0.0	1300.0	0.0	0.0	0.0	0.0

DESCRIPTION: PURCHASE AUGMENTATION HARDWARE. IN SUPPORT OF: RESOURCE AND PROGRAM MANAGEMENT.

NASA Telecommunications

ITEM: TELEPHONE SYSTEM

OBLIGATIONS:

1985	1986	1987	1988	1989
3,700	3,700	3,700	3,700	3,700

DESCRIPTION: TELEPHONE SYSTEM FOR JOHNSON SPACE CENTER LEASE PURCHASE

ITEM: TELEPHONE SYSTEM

OBLIGATIONS:

1985	1986	1987	1988	1989
2,700	2,700	2,700	2,700	2,500

DESCRIPTION: TELEPHONE SYSTEMS FOR GODDARD SPACE CENTER AND WALLOPS FLIGHT FACILITY LEASE PURCHASE

ITEM: TELEPHONE SYSTEM

OBLIGATIONS:	1985	1986	1987	1988	1989
	1,400	6,000	6,300	6,600	6,900

DESCRIPTION: TELEPHONE SYSTEMS FOR MARSHALL SPACE FLIGHT CENTER, SLIDELL COMPUTER COMPLEX AND MICHOUD ASSEMBLY FACILITY LEASE PURCHASE

ITEM: COMMUNICATIONS NETWORK

OBLIGATIONS:	1985	1986	1987	1988	1989
	17,700	26,200	29,800	32,900	35,100

DESCRIPTION: PROGRAM SUPPORT COMMUNICATIONS NETWORK LEASE BY THE OFFICE OF SPACE TRACKING AND DATA SYSTEMS FOR THE ENTIRE AGENCY

NATIONAL SCIENCE FOUNDATION

Major Information Technology Acquisition Plans
1984 - 1989
(In thousands of dollars)

In-House Computer Facility

Item: Multi-function Workstations/Microcomputers

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	$ 300	$ 900	$ 100	$ 100	$ 100	$ 100

Description: Replacement of obsolete work processing and computer terminal equipment with multi-function workstations and/or microcomputers.

Item: Communications Equipment/Network Support

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	50	750	600	300	100	100

Description: Acquisition of network components (e.g., front-end unit, multiplexor, line installation, etc.) and subsequent upgrades to support a distributed processing environment.

National Center for Atmospheric Research

Item: CDC 7600 Replacement

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,900	1,500	---	---	---	---

Description: Lease/purchase, maintenance and site preparation for a used CRAY-1A computer.

Item: AVC and Mass Storage Systems

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	1,500	6,000	8,200	9,800	200	200

Description: Competitive purchase or lease of advanced vector computer and mass storage system to meet national needs of the scientifice community.

Item: Graphics System

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	---	---	$ 450	$ 730	$ 590	---

Description: Competitive purchase of raster graphics system, development system and replication of DICOMED.

Item: Minicomputers

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	---	---	$ 925	$1,175	$ 825	$ 425

Description: Purchase of minicomputer systems for NCAR scientific divisions, one each in FY.

Item: Communications

Obligations:	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989
	---	---	$ 600	---	---	$2,000

Description: Competitive purchase of high band width communications link (FY 1986) and purchase of satellite communication service (FY 1989).

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TENNESSEE VALLEY AUTHORITY

Major Information Technology Acquisition Plans
1983 - 1988
(In thousands of dollars)

Item: Competitive Replacement of Word Processing Equipment

Obligations:

1983	1984	1985	1986	1987	1988
2,401	4,817	3,798	5,050	6,075	6,370

Description: Procurement and support costs associated with the acquisition of new word processing equipment.

Item: Scientific Computing Workload

Obligations:

1983	1984	1985	1986	1987	1988
2,400	5,100	5,300	5,100	5,000	5,000

Description: Commercial services and support of scientific computing power and software primarily for the design and operation of nuclear power plants.

Item: Equipment Additions To Central Computing Facility

Obligations:

1983	1984	1985	1986	1987	1988
7,595	480	1,145	4,500	4,500	-

Description: In 1982/1983 the required computing power for the central facility was secured under a competitive procurement for a system life of six years. As the computing workload increases, additional computing equipment will be procured.

Item: Data Communications Network Control Center

Obligations:

1983	1984	1985	1986	1987	1988
33	1,000	300	500	-	-

Description: Establish a central node diagnostic center and provide for network switching in TVA's data communication system.

Item: Maintenance of Computing Equipment

Obligations:

1983	1984	1985	1986	1987	1988
510	1,173	1,230	1,360	1,390	1,390

Description: Maintenance costs associated with maintaining computing equipment for central facility and distributed processing centers.

Item: Rent and Maintenance of Distributed Terminals, Printers, and Controllers

Obligations:

1983	1984	1985	1986	1987	1988
1,430	1,600	850	918	990	1,070

Description: Procurement, rental, and maintenance costs of remote (from central facility) terminals, printers, and assorted controllers

Item: Rental and Lease of General Purpose Equipment and Software Products

Obligations:

1983	1984	1985	1986	1987	1988
1,100	1,300	1,375	1,470	1,570	1,690

Description: Rental and lease of ADPE and software products for the central facility and distributed processing centers.

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Item: Competitive Procurement and Upgrades of Minicomputers and Peripherals

Obligations:

1983	1984	1985	1986	1987	1988
1,522	3,010	2,664	3,200	3,000	3,000

Description: Purchase costs of minicomputers and peripherals for new applications in power generating plants and environmental data collection stations and the costs associated with upgrading the existing minicomputers and peripherals.

Item: Communications Equipment and Services

Obligations:

1983	1984	1985	1986	1987	1988
9,976	10,774	11,636	12,566	13,572	14,658

Description: Equipment lease and service costs as associated with the operation, maintenance, and support of voice and data communications.

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